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Kindergarten Math

Unit 1

- How to use numbers
- Counting objects
- Numbers 1 and 2
- Numbers 3 and 4
- Numbers 5 and 6
- Numbers 7 and 8
- Numbers 9 and 10
- The number 0
- Counting to 10
- Telling how many objects
- Matching objects to number

Unit 2

- Numbers 11 and 12
- Numbers 13 and 14
- Numbers 15 and 16
- Numbers 17 and 18
- Numbers 19 and 20
- Counting backward from 20
- The parts of a ten frame
- Numbers 0 to 10 on a ten frame
- Numbers up to 20 on ten frames

Unit 3

- Two-dimensional shapes
- Rectangles
- Squares
- Triangles
- Circles
- Sorting shapes
- Creating two-dimensional shapes

Unit 4

- Three-dimensional shapes
- Cubes
- Cylinders
- Cones
- Spheres
- Sorting solids
- Object position

Unit 5

- Patterns
- Counting to 50
- Ones and tens
- Equal to
- More
- Fewer
- One more
- One less
- Looking at numbers
- Making groups equal

Unit 6

- Counting all objects
- Putting numbers together
- Number bonds
- Using zero (0)
- Addition
- Number bond addition
- Counting forward
- Word stories
- Addition facts

Unit 7

- Breaking apart numbers
- Taking away
- Left over
- Subtraction
- Different ways to subtract
- Subtraction sentence
- Subtraction with a ten frame
- Counting backward to subtract
- Subtraction word stories
- Count to 70

Unit 8

- Measurement
- Measuring length
- Measuring height
- Comparing length and height
- Weight
- Comparing weights
- Capacity

- Comparing capacity
- Comparing objects

Unit 9

- Same or different
- Sorting and matching
- Data
- Charts
- Graphs
- Picture graph data
- Making a graph
- Making conclusions
- Counting to 100

Unit 10

- Money
- Penny
- Nickel
- Dime
- Quarter
- Wants and needs
- Income
- Gifts
- Job skills

1st Grade Math

Unit 1

- Count to the number 10.
- Count backward from the number 10.
- Model numbers.
- Tell which model has more or less.
- Use models to join numbers.
- Make a group of 10.
- Use models to add numbers.
- Use addition to solve word stories.
- Use models to separate numbers.
- Use models to subtract numbers.
- Use subtraction to solve word stories.

Unit 2

- Count to the number 20.
- Skip count by 2s.
- Find the number of items.
- Skip count by 5s.
- Find the number of items.
- Understand the value of 0.
- Add and subtract 0.
- Add numbers 0 to 20.
- Solve addition word stories.
- Relate addition and subtraction.
- Subtract numbers 0 to 20.
- Solve subtraction word stories.

Unit 3

- Add 2 or more numbers.
- Subtract 2 or more numbers.
- Add or subtract word stories with 3 numbers.
- Write a word story using a number sentence.
- Find the missing number or symbol.
- Know the different ways to add.
- Use 10 to add or subtract.
- Describe place value.
- Use models to show place value.
- Count to 50.
- Expand numbers.

Unit 4

- Learn the hundreds chart.
- Count to 100.
- Find ten less or ten more.
- Skip count by 10s.
- Skip count to 100.
- Use a hundreds chart to add.
- Add tens and ones.
- Add using standard form.
- Subtract using a hundreds chart.
- Subtract tens and ones.

Unit 5

- Compare numbers.
- Use place value to compare numbers.
- Find a number greater than.
- Find a number less than.
- Find the least and the greatest.
- Order numbers from least to greatest.
- Order numbers from greatest to least.
- Create a number line.
- Order numbers on a number line.

Unit 6

- Find the parts of shapes.
- Know a hexagon.
- Know a rhombus.
- Sort shapes.
- Compose shapes.
- Find equal parts of a shape.
- Name equal parts.
- Describe solids.
- Name solids.
- Know rectangular prisms.
- Know triangular prisms.

Unit 7

- Order 3-digit numbers.
- Decompose 3-digit numbers.
- Expand 3-digit numbers.
- Regroup to add.
- Skip count to 120.
- Find other ways to skip count.
- Find a number less than or greater than.
- Compare 3-digit numbers.
- Order 3-digit numbers.

Unit 8

- Know words for measurements.
- Compare lengths and heights.
- Use units to measure.
- Compare units of measure.
- Use units to measure time.
- Tell time to the half hour.
- Tell time on analog clocks.
- Estimate time.
- Tell time to the half hour.

Unit 9

- Show data.
- Use a picture graph.
- Use a bar graph.
- Use tally marks.
- Use T-charts.
- Make a picture graph.
- Make a bar graph.
- Make conclusions.
- Ask questions.

Unit 10

- Find the value of coins.
- Skip count with coins.

- Write and use the cent symbol.
- Use money and income.
- Compare coins.
- Choose wants or needs.
- Choose goods and services.
- Choose spending or saving.
- Show someone charity.

2nd Grade Math

Unit 1

- Read and write numbers up to 100.
- Use models to show numbers.
- Learn about place value.
- Read and write numbers in different forms up to 200.
- Compare numbers using symbols.
- Learn the order of the numbers.
- Review adding and subtracting numbers up to 20.
- Determine if numbers are even or odd.
- Name a point on a number line.
- Locate the position of numbers and name them on open number lines.

Unit 2

- Learn about fact families and math facts.
- Add 2-digit numbers to 2-digit numbers using place value blocks and in expanded form.
- Add 2-digit numbers using a number line.
- Add 2-digit numbers in standard form.
- Add by tens.
- Subtract by tens.
- Add and subtract tens and ones using the hundreds chart.
- Add and subtract tens and ones using mental math.
- Learn about number patterns in the hundreds.
- Locate numbers up to 999 on a number line.
- Compare numbers using symbols.
- Write numbers in different forms.
- Use tens and ones to build a hundred.

Unit 3

- Use models to count and write numbers up to 1,200.
- Break apart and build numbers in different ways.
- Write numbers up to 1,200 in standard, expanded, and word form.
- Compare numbers up to 1,200 using symbols.
- Compare numbers up to 1,200 on a number line.
- Order numbers up to 1,200.
- Subtract 2-digit numbers from 2-digit numbers using place value blocks and number lines.
- Subtract 2-digit numbers from 2-digit numbers in standard form.
- Choose which operation to use in word problems—addition or subtraction.
- Add and subtract 10.
- Add and subtract 100.
- Identify fractional parts.

- Name fractional parts: halves, thirds, fourths, and eighths.
- Identify one equal part of a whole.
- Identify more than one equal part of a whole.
- Learn the different ways to show equal shares.
- Learn which fractions make a whole.
- Count equal parts that are more than one whole.
- Compare fractional parts.

Unit 4

- Regroup ones and tens to add 1-digit and 2-digit numbers.
- Add 1-digit and 2-digit numbers in standard form.
- Model to add 2-digit numbers.
- Add 2-digit numbers on a number line.
- Use a hundreds chart to add.
- Add four 2-digit numbers.
- Add 2-digit numbers using different methods.
- Subtract using a hundreds chart.
- Subtract tens and ones.

Unit 5

- Regroup tens to subtract 1-digit from 2-digit numbers.
- Subtract 1-digit from 2-digit numbers in the standard form.
- Model to subtract 2-digit numbers.
- Use addition to check subtraction.
- Subtract 2-digit numbers with and without regrouping.
- Break apart numbers to subtract on a number line.
- Write math stories.
- Review one- and two-step problems.
- Add 3-digit numbers by expanding and breaking apart.
- Use models to add 3-digit numbers.
- Review when to regroup when adding 3-digit numbers.

Unit 6

- Solve division sentences.
- Write a division story.
- Model to subtract 3-digit numbers with regrouping tens and hundreds.
- Write math stories for a given math sentence.
- Find missing values.
- Solve two-step problems with 3-digits.
- Add equal groups.
- Use repeated addition to multiply.
- Solve multiplication sentences.
- Write a multiplication story.

- Find the parts of equal shares.
- Solve repeated subtraction.
- Solve division sentences.
- Write a division story.

Unit 7

- Find the sides of a shape.
- Find the vertices of a shape.
- Identify polygons with up to 12 sides.
- Name and draw shapes. Find a parallelogram.
- Find a trapezoid.
- Put together shapes to make bigger shapes.
- Tell if a shape is congruent to another shape.
- Make line symmetry in shapes.
- Take apart two-dimensional shapes to make new shapes.
- Sort two-dimensional shapes by the number of sides, vertices, and equal sides.
- Name three-dimensional solids.
- Sort solids by the number of vertices, edges, and faces.
- Name the flat surfaces of three-dimensional shapes.
- Build new solids from unit cubes.
- Build new solids from other solids.

Unit 8

- Find the length of objects using models for inches.
- Measure objects with a ruler in inches.
- Measure objects in inches, feet, and yards.
- Measure objects with a ruler in centimeters.
- Measure objects in meters and centimeters.
- Use square units to find the area of a rectangle.
- Tell the time with a.m. and p.m.
- Tell the time to 15 minutes before or after the hour.
- Tell and show time to 5 minutes.
- Tell and show time to 1 minute.

Unit 9

- Review how to collect data.
- Read a pictograph.
- Use data from a graph to draw conclusions.
- Make pictographs to show data.
- Read a bar graph.
- Create a bar graph.
- Show data in different ways. Write and solve problems about data on a graph.
- Use data from a graph to make predictions.

Unit 10

- Learn the value of coins.
- Count the total amount of coins.
- Learn the value of a dollar.
- Count coins up to a dollar.
- Show different sets of coins that have the same value.
- Solve problems about money.
- Count paper money.
- Discover the difference between saving and spending.
- Find how savings can grow over time.
- Learn about deposits and withdrawals.
- Tell the difference between deposits and withdrawals.
- Learn about borrowing objects and money.
- Compare responsible and irresponsible borrowing.
- Find out when you should or should not lend money.
- Understand producers and consumers.

3rd Grade Math

Unit 1

- Use a model to represent a three-digit number.
- Identify the number represented by a model.
- Show the value of the digits in a three-digit number with models.
- Show the value of each digit in a number with a place value chart.
- Compare whole numbers using models.
- Correctly use the symbols <, >, and = to compare numbers.
- Compare numbers using place value charts.
- Locate numbers on a number line.
- Use a number line to compare numbers.
- Round two-digit numbers to the nearest ten.
- Round numbers up to five digits to a given place.
- Solve problems using place value, rounding, and comparing numbers.

Unit 2

- Use a model to represent addition.
- Identify the addition problem shown with a model.
- Use a model to represent addition with regrouping.
- Identify the addition problem with regrouping shown with a model.
- Add numbers in columns.
- Add more complex addition problems.
- Represent an addition problem with an equation.
- Transform a column addition problem to an equation.
- Transform an addition equation to a column addition problem.
- Use a number line to visualize addition.
- Use rounding to estimate in addition.
- Determine the value of a collection of coins.
- Determine the value of a collection of bills.
- Solve problems involving addition.

Unit 3

- Use a model to represent subtraction.
- Identify the subtraction problem shown with a model.
- Use a model to represent subtraction with regrouping.
- Identify the subtraction problem with regrouping shown with a model.
- Subtract numbers in columns.
- Subtract more complex subtraction problems.
- Represent a subtraction problem with an equation.
- Transform a column subtraction problem to an equation.
- Transform a subtraction equation to a column subtraction problem.
- Transform between related addition and subtraction equations.
- Use a number line to visualize subtraction.

- Use rounding to estimate in subtraction.
- Subtract money from a collection of coins or a collection of bills.
- Calculate how much change is owed when paying for something.
- Solve problems involving subtraction.

Unit 4

- Model multiplication with equal groups.
- Model multiplication with skip counting.
- Model multiplication with repeated addition.
- Model multiplication with a rectangular array.
- Use area models to model multiplication.
- Use a number line to model multiplication.
- Apply and use multiplication by 2.
- Apply and use multiplication by 5.
- Apply and use multiplication by 10.
- Apply and use multiplication by 3.
- Apply and use multiplication by 6.
- Apply and use multiplication by 9.
- Apply and use multiplication by 4.
- Apply and use multiplication by 7.
- Apply and use multiplication by 8.
- Construct the multiplication table.
- Inspect the multiplication table to discover patterns.
- Recognize the symmetry in the multiplication table leading to the Commutative Property.
- Recognize the symmetry in the multiplication table leading to the Multiplication Property of Zero.
- Apply the Commutative Property to multiplication problems.
- Apply the Multiplication Property of Zero to multiplication problems.
- Apply the pattern of multiplying by 10.

Unit 5

- Represent division using a visual model.
- Write a related multiplication fact from a division fact.
- Write a related division fact from a multiplication fact.
- Show division with repeated subtraction.
- Show division with equal groups.
- Show division with related multiplication.
- Show division with a rectangular array.
- Use a multiplication table to divide.
- Identify even and odd numbers.
- Determine if a number can be divided by 2 by inspection.
- Where possible, divide a number by 2.
- Where possible, divide a number by 5.
- Where possible, divide a number by 10.
- Where possible, divide a number by 3.

- Where possible, divide a number by 4.
- Where possible, divide a number by 6.
- Where possible, divide a number by 7.
- Where possible, divide a number by 8.
- Where possible, divide a number by 9.
- Divide a 2-digit number by a 1-digit number, using the Multiplication Table.

Unit 6

- Model a fraction that is less than one whole.
- Write a fraction given the value of the numerator and denominator.
- Represent a fraction on a number line.
- Find the fraction represented by a point on a number line.
- Identify unit fractions.
- Write unit fractions.
- Combine unit fractions.
- Represent equivalent fractions on a number line.
- Represent equivalent fractions with an area model.
- Compare two fractions with values between 0 and 1.
- Correctly use the symbols <, >, and =.
- Use pictorial models to represent equivalent fractions.
- Compare fractions using models, the number line, or by inspection.
- Find a fractional part of a collection by dividing the collection into equal parts.
- Find a fractional part of an object by dividing the object into equal parts.

Unit 7

- Multiply a two-digit number by a one-digit number.
- Multiply a two-digit number by a one-digit number, with carrying.
- Multiply a two-digit number by a one-digit number.
- Divide a three- or four-digit number by a one-digit number, using the multiplication table.
- Divide any number within 100 by a one-digit number.
- Divide any number by a one-digit number.
- Find the area of rectangles and related figures.
- Use mental math to solve multiplication problems.
- Use partial products to solve multiplication problems.
- Solve multiplication problems using the commutative property.
- Solve multiplication problems using the associative property.
- Solve multiplication problems using the distributive property.

Unit 8

- Discover the relationship among various units of volume by estimation.
- Choose an appropriate unit of volume.
- Convert between two different units of volume.
- Recognize metric units of volume.

- Choose an appropriate unit of volume.
- Discover the relationship among various units of weight.
- Recognize metric units of weight.
- Choose an appropriate unit of weight.
- Choose correct measures for weight and volume.
- Tell time to the nearest minute using an analog or digital clock.
- Calculate time intervals.
- Calculate time intervals.

Unit 9

- Sort and classify quadrilaterals by side length and angles.
- Sort and classify three-dimensional shapes such as cones, cylinders, spheres, triangular prisms, rectangular prisms, and cubes.
- Find the perimeter of a two-dimensional figure.
- Find the area of a rectangle.
- Find the length of a side of a rectangle if the area is known.
- Find the area of a composite shape made up of two or more rectangles.
- Decompose a composite shape in more than one way.
- Decompose congruent shapes into parts with equal areas.
- Express the area of a part of a figure as a fraction.
- Recognize that equal shares of identical wholes need not have the same shape.
- Apply properties of area to real-life situations.

Unit 10

- Represent data graphically.
- Understand the relation between labor and income.
- Understand the relation between skill and education level and income.
- Describe the relationship between availability of resources and costs.
- Recognize the costs of planned spending decisions.
- Recognize the benefits of planned spending decisions.
- Recognize the costs of unplanned spending decisions.
- Recognize the benefits of unplanned spending decisions.
- Explain when credit is used.
- Explain that the borrower must pay back the lender when using credit and with interest.
- Explain the benefits of a savings plan.
- Describe decisions involving income, spending, saving, credit, and charitable giving.

4th Grade Math

Unit 1

- Show the value of each digit in a number with a place value chart.
- Interpret the value of each place value position.
- Represent numbers using expanded notation.
- Represent numbers using standard notation.
- Compare two whole numbers using the symbols <, >, and =.
- Order a set of whole numbers.
- Round whole numbers to a given place value.
- Represent decimals with concrete and visual models.
- Compare and order decimal numbers.
- Express fractions with a denominator of 10 or 100 as a decimal.
- Express decimals as fractions.
- Determine the corresponding decimal of a point on the number line.

Unit 2

- Represent a fraction as equal parts of a whole.
- Represent a fraction as an equal part of a collection.
- Represent a fraction as a sum of unit fractions, including improper fractions.
- Decompose a fraction into the sum of fractions using the same denominator.
- Determine if two different fractions are equivalent.
- Compare two fractions and represent the comparison using the symbols <, =, or >.
- Represent fractions and decimals as distances from zero on a number line.

Unit 3

- Represent the addition of fractions with models.
- Represent the addition of fractions on the number line.
- Add fractions with like denominators.
- Represent the subtraction of fractions with models.
- Represent the subtraction of fractions on the number line.
- Subtract fractions with like denominators.
- Apply the Commutative Property to the addition of fractions.
- Apply the Associative Property to the addition of fractions.
- Apply the Zero Property to the addition of fractions.
- Evaluate the reasonableness of sums and differences using benchmark fractions.

Unit 4

- Add two or more whole numbers.
- Add two or more decimals with the same number of decimal places.
- Add two or more decimals with different numbers of decimal places.

- Subtract two or more numbers when possible.
- Subtract decimals with the same number of decimal places.
- Round whole numbers to a given place.
- Round or use compatible numbers to estimate solutions using whole numbers.
- Use whole numbers to measure length.
- Use whole numbers to measure volume.
- Use whole numbers to measure mass and weight.
- Calculate time intervals.
- Calculate with money.

Unit 5

- Determine the product of a number and 10.
- Determine the product of a number and 100.
- Represent multiplication with an equation.
- Represent multiplication with an equation.
- Multiply a number up to four digits by a one-digit number.
- Multiply a two-digit number by a two-digit number.
- Multiply a number up to four digits by a one-digit number.
- Multiply a two-digit number by a two-digit number.
- Use rounding and compatible numbers to estimate products.
- Apply the Commutative Property of Multiplication.
- Apply the Associative Property of Multiplication.
- Apply the Multiplication Property of Zero.
- Apply the Multiplication Property of One.
- Solve one- and two-step problems involving multiplication.

Unit 6

- Represent division with a rectangular array.
- Represent division with an area model.
- Represent division with an equation.
- Divide a two-digit dividend by a one-digit divisor.
- Divide a three-digit dividend by a one-digit divisor.
- Divide a four-digit dividend by a one-digit divisor.
- Use compatible numbers to estimate quotients.
- Apply properties of multiplication to help find quotients.
- Solve one- and two-step problems using division.

Unit 7

- Represent relationships among numerical quantities using an algebraic expression.
- Represent relationships among numerical quantities using an addition or subtraction equation.
- Find solutions to equations using more than one operation.
- Find solutions to equations that have more than one variable.

- Use a table to generate a number pattern.
- Develop perimeter and area formulas for the square and the rectangle.
- Use perimeter and area formulas for the square and the rectangle.
- Use strip diagrams to represent single- and multi-step problems.
- Solve real-world problems using algebraic expressions, equations, and form.

Unit 8

- Identify points, lines, and line segments.
- Identify rays and angles.
- Identify parallel and perpendicular lines.
- Identify lines of symmetry for a two-dimensional figure.
- Draw lines of symmetry for a two-dimensional figure.
- Identify right triangles.
- Identify acute and obtuse triangles.
- Identify polygons.
- Sort polygons with and without parallel sides.
- Sort polygons with and without perpendicular sides.
- Sort polygons based on their angles.

Unit 9

- Illustrate the measure of an angle as the part of a circle whose center is the vertex of the angle that is cut out by the rays of the angle.
- Illustrate degrees as the units used to measure an angle.
- Use a protractor to measure angles.
- Use a protractor to draw an angle.
- Determine the measure of an angle formed by adjacent angles.
- Identify relative sizes of measurement units.
- Convert measurements within the customary system.
- Solve problems that deal with measurements of length, liquid volume, and mass.
- Convert measurements within the metric system.
- Solve problems that deal with measurements of length, liquid volume, and mass.
- Represent data on a frequency table, a dot plot, or stem-and-leaf plot.
- Solve problems using data.
- Solve problems using time and money.

Unit 10

- Identify fixed expenses.
- Identify variable expenses.
- Distinguish between fixed and variable expenses.
- Calculate profit for a given situation.
- Describe how to allocate a weekly allowance among spending; saving, including for college; and sharing.
- Compare the advantages and disadvantages of various savings options.

- Describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending.
- Use addition and subtraction to solve real-world financial problems.
- Use multiplication to solve real-world financial problems.
- Use division to solve real-world financial problems.

5th Grade Math

Unit 1

- Understand place value through hundred thousands place.
- Understand place values to the right of the decimal point.
- Write complete decimal numbers.
- Convert between place values.
- Use place values to determine the size of one number compared to another.
- Use place values to round numbers.
- Estimate answers by rounding to a place value.
- Write large numbers in scientific notation.

Unit 2

- Understand regrouping in addition and subtraction of some whole numbers.
- Understand regrouping in addition and subtraction of some decimals.
- Learn some words that tell if a problem is addition or subtraction.
- Use addition and subtraction to solve real-world problems.
- Find missing digits in addition and subtraction problems.
- Choose numbers from a list that equal a given sum or difference.
- Define three properties of addition.
- Identify which property is used in a problem.
- Use the three addition properties to solve problems.
- Know the rules of rounding.
- Use estimation to find answers to math and real-world problems.

Unit 3

- Find patterns in the multiplication table.
- Review multiplication of one-digit numbers.
- Multiply numbers ending in zeroes.
- Multiply two-digit numbers by one- and two-digit numbers.
- Multiply three-digit numbers by one- and two-digit numbers.
- Solve word problems using multiplication.
- Multiply decimals.
- Estimate answers for real-world multiplication problems having decimals.
- Learn five properties of multiplication.
- Apply five properties of multiplication.
- Compare division and multiplication.
- Review division of whole numbers.
- Review long division without remainders.
- Review long division with remainders.
- Divide up to four-digit decimals with quotients to the hundredths.
- Make models of decimals divided by a whole number.

Unit 4

- Review fractions using models.
- Find equivalent fractions.
- Compare fractions with different denominators using models.
- Compare fractions with same and different denominators without models.
- Find the greatest common factor (GCF).
- Simplify fractions using the greatest common factor (GCF).
- Add fractions with like denominators.
- Add fractions with unlike denominators.
- Solve word problems that have fractions.
- Subtract fractions with like denominators.
- Subtract fractions with unlike denominators.
- Convert between improper fractions and mixed numbers.
- Show fraction and mixed number models.
- Add and subtract improper fractions.
- Add and subtract mixed numbers.

Unit 5

- Model multiplying a fraction by a whole number.
- Multiply fractions and whole numbers.
- Multiply fractions.
- Simplify fractions.
- Know the order of operations.
- Solve problems using the order of operations.
- Multiply mixed numbers by whole numbers using two methods.
- Multiply mixed numbers and fractions using models and math.
- Multiply mixed numbers.
- Find the reciprocal of fractions.
- Model dividing whole numbers by fractions.
- Model dividing fractions by a whole numbers.
- Divide fractions and whole numbers.
- Model dividing fractions.
- Divide fractions.
- Model dividing mixed numbers by fractions.
- Divide fractions and mixed numbers.

Unit 6

- Define composite and prime numbers.
- Identify composite and prime numbers.
- Write numerical expressions from word expressions.
- Write numerical expressions and find their values.
- Write algebraic expressions containing one variable.
- Understand what an equation is.
- Write equations for word problems.

- Review order of operations.
- Show how parentheses and brackets affect the answer in algebraic equations.
- Find the solution for the variable in an equation.
- Solve word problems.
- Find the rule for additive and multiplicative numerical patterns.
- See the difference between additive and multiplicative numerical patterns.
- Write numerical patterns from equations.
- Write equations from numerical patterns.

Unit 7

- Identify open and closed shapes.
- Identify polygons.
- Identify types of lines.
- Identify types of angles.
- Practice measuring and making angles.
- Identify types of quadrilaterals by their characteristics.
- Find the perimeter of rectangles.
- Find the area of rectangles.
- Compare sides and areas.
- Know the names of triangles.
- Understand congruency and similarity in geometry.
- Find the perimeter of triangles.
- Find the area of triangles.
- Identify parts of circles.
- Measure and find the sum of central angles in a circle.

Unit 8

- Convert customary lengths.
- Convert customary weights.
- Convert customary volumes.
- Solve real-world problems.
- Convert metric lengths.
- Convert metric weights.
- Convert metric volumes.
- Identify parts of a polyhedron.
- Identify pyramids.
- Identify prisms.
- Understand volume.
- Understand unit cubes.
- Measure volumes of solids using unit cubes.
- Use formulas to find volumes of rectangular and triangular prisms.
- Apply the formulas to solve real-world problems.

Unit 9

- Learn about the coordinate plane.
- Learn to plot points on the coordinate plane.
- Understand line graphs.
- Make line graphs from sets of data.
- Understand scatterplots.
- Make scatterplots from sets of data.
- Understand the use of bar graphs.
- Make bar graphs from given data.
- Understand histograms.
- Make histograms from frequency tables.
- Understand pictographs.
- Complete a pictograph from given information.
- Learn about two types of dot plots.
- Record data using dot plots.
- Make dot plots from story problems.
- Understand stem-and-leaf plots.
- Use stem-and-leaf plots to show how data are grouped.
- Find information from circle graphs.

Unit 10

- Study the history of money.
- Understand what income is.
- Explain the difference between gross and net income.
- Define payroll taxes and income taxes.
- Complete an earnings statement.
- Know about property tax.
- Know about sales tax.
- Learn what the taxes are used for.
- Identify fixed and variable expenses.
- Solve word problems about expenses.
- Recognize the advantages and disadvantages of paying with cash or a check.
- See some advantages and disadvantages of using credit and debit cards.
- Work word problems about credit.
- Discover ways to keep good records of managing money.
- Solve word problems to set up records of expenses.
- Balance a budget.
- Explain what to do when expenses are greater than income.

6th Grade Math – 2nd Edition

Unit 1

- Review place value and addition and subtraction of whole numbers.
- Use addition and subtraction to solve real-world problems.
- Review multiplication and division of whole numbers.
- Use multiplication and division to solve real-world problems.
- Recognize the relationships between numbers.
- Identify integers in the real world.
- Learn about absolute value.
- Compare and order integers using the number line.
- Add integers using a number line and counters.
- Add integers using a number line and counters.
- Learn the rules for adding integers.
- Add integers using mental math.
- Solve word problems.
- Subtract integers using a number line and counters.
- Learn the rules for subtracting integers.
- Subtract integers using mental math.
- Solve word problems.
- Learn integer multiplication rules.
- Learn to multiply integers.
- Know that division is the inverse of multiplication.
- Learn integer division rules.
- Divide integers.

Unit 2

- Apply place value to decimals.
- Model decimals.
- Round decimals.
- Compare and order decimals.
- Add decimals.
- Subtract decimals.
- Estimate sums and differences of decimals.
- Multiply decimals by 10 and multiples of 10.
- Multiply decimals by whole numbers other than 10 and multiples of 10.
- Solve decimal multiplication word problems.
- Multiply decimals by other decimals.
- Solve decimal word problems.
- Divide decimals by whole numbers.
- Solve decimal division word problems.
- Divide decimals by decimals.
- Solve word problems.
- Write numbers with exponents.
- Find values of exponential forms.
- Learn to use order of operations.
- Solve mathematical expressions using the order of operations.
- Solve mathematical expressions using a graphing calculator.

Unit 3

- Identify composite and prime factors.
- Find the prime factors of whole numbers.
- Review greatest common factor.
- Review least common multiple.
- Find equivalent fractions.
- Simplify fractions.
- Add like and unlike fractions.
- Subtract like and unlike fractions.
- Multiply fractions.
- Solve word problems.
- Model fractions divided by fractions.
- Find the reciprocals of numbers.
- Divide fractions.
- Change improper fractions to mixed numbers.
- Change mixed numbers to improper fractions.
- Order mixed numbers and improper fractions.
- Add improper fractions and mixed numbers.
- Subtract improper fractions and mixed numbers.
- Multiply improper fractions and mixed numbers.
- Divide improper fractions and mixed numbers.

Unit 4

- Understand ratios.
- Find equivalent ratios.
- Write equivalent ratios in tables and plot on coordinate plane.
- Understand rates.
- Understand unit rate.
- Work rate problems.
- Understand proportions.
- Solve proportion problems.
- Model percents.
- Write percents as fractions.
- Write fractions as percents.
- Write percents as decimals.
- Write decimals as percents.
- Compare fractions, decimals, and percents with models.
- Review some conversion methods.
- Compare fractions, decimals, and percents mathematically.
- Solve percentage problems using various proportional methods including equations, scale factors, and pictorial models.
- Understand that percentages represent a part-to-whole relationship.
- Learn the English measurement system.
- Convert customary units of measurements.
- Convert metric units of measure using conversion factors.
- Convert metric units of measure using proportions.
- Use ratios and proportions to change customary units to metric units.
- Use ratios and proportions to change metric units to customary units.

- Solve word problems.

Unit 5

- Know five properties of operations.
- Model the properties.
- Identify the type of property of operations.
- Recognize and use the various forms of multiplication in mathematics.
- Solve problems using the distributive property of operations.
- Evaluate expressions with variables.
- Use expressions to solve real-world problems.
- Find equivalent expressions using properties of operations.
- Evaluate equations with variables.
- Determine if a number is a solution of an equation.
- Write and solve equations for word problems.
- Solve addition equations using models.
- Solve and check the solutions to addition equations.
- Solve subtraction problems using models.
- Solve and check the solutions to subtraction equations.
- Solve multiplication equations using models.
- Solve multiplication equations.
- Solve division equations.
- Solve division equations using models.
- Identify independent and dependent quantities.
- Create tables and graphs from linear equations.
- Solve inequalities.
- Solve inequality word problems.
- Graph inequalities on a number line.

Unit 6

- Find the mean and median of sets of numbers.
- Find the mean and median of real-life problems.
- Find the mode and range of sets of numbers.
- Find the mode and range in real-life problems.
- Interpret data in bar graphs, histograms, and line graphs.
- Interpret data in dot plots and stem-and-leaf plots.
- Find quartiles.
- Create and interpret data in box plots.
- Understand probability.
- Understand independent and dependent events.
- Find the probability of two events happening in one outcome.
- Use lists and tables to find combinations.
- Learn how to find permutations.

Unit 7

- Review the parts of a coordinate plane.
- Locate and plot points on the coordinate plane.

- Use coordinate graphs as maps.
- Plot points on the coordinate plane and create single-line graphs.
- Plot points on the coordinate plane and create double-line graphs.
- Understand what a slope is.
- Find the slope and *y*-intercept of a line.
- Use the slope and *y*-intercept of a line to find a linear equation.
- Use the slope and *y*-intercept from a linear equation to graph its line.
- Find the linear equation given the slope and a point on a line.
- Find the linear equation given two points on a line.
- Recognize when linear equations are proportional in all four representations.
- Write linear equations, both proportional and nonproportional, from tables and words.
- Graph linear equations, both proportional and nonproportional, from tables and words.

Unit 8

- Identify and name lines, rays, and line segments.
- Name angles.
- Measure angles.
- Identify several types of angles.
- Identify types of triangles by their angles and sides.
- Calculate the measure of unknown angles in triangles.
- Understand and use the relationships between the length of sides and the measure of angles in a triangle.
- Understand and solve problems with the triangle inequality theorem.
- Classify quadrilaterals by their sides and their angles.
- Find the measure of an unknown angle in a quadrilateral.
- Solve real-life problems using quadrilaterals.
- Identify types of polygons.
- Identify regular and irregular polygons.
- Find the number of diagonals in a polygon.
- Draw polygons on a coordinate plane.
- Find missing vertices.
- Solve real-world problems.
- Identify similar and congruent figures.
- Find corresponding sides using proportions.
- Identify lines of symmetry in figures.

Unit 9

- Find the perimeter of polygons.
- Solve real-life problems dealing with polygons.
- Find the area of parallelograms and trapezoids.
- Find the area of triangles.
- Solve real-world problems dealing with triangles.
- Find the area of irregular shapes.
- Learn the properties of some solids.
- Identify three-dimensional figures.

- Use unit cubes to find the volume of a rectangular prism.
- Learn and use the formula for finding the volume of rectangular prisms.
- Understand the area of a circle and use it to find the volume of a cylinder.
- Find the volume of cylinders.
- Find the surface areas of prisms and pyramids using nets.
- Find the surface areas of cylinders using a formula.
- Find the surface areas of cylinders using nets.

Unit 10

- Learn about checking accounts.
- Understand credit and debit in a check register.
- Balance a check register.
- Learn about debit cards.
- Learn about credit cards.
- Compare debit and credit cards.
- Learn what is in a credit report.
- Learn about a credit score.
- Understand the importance of a good credit history.
- Find simple interest on savings accounts and loans.
- Find the total amount due.
- Find unit prices.
- Compare unit prices.
- Find sale price.
- Learn the effect of coupons on sale price.
- Find the profit of selling store merchandise.
- Learn that discount is a percent of an original price.
- Use discount rates to find sale prices.
- Learn different ways to pay for a college education.
- Know the price of going to college.
- Learn about different kinds of scholarships.
- Compare earnings to level of education.
- Learn some jobs you can have with each level of education.

7th Grade Math – 2nd Edition

Unit 1

- Understand sets and subsets.
- Identify sets and subsets.
- Know rational numbers.
- Order rational numbers.
- Review exponents.
- Solve problems with exponents.
- Understand square roots.
- Find square roots.
- Identify irrational numbers.
- Show irrational numbers on a number line.
- Understand scientific notation.
- Write large numbers in scientific notation.
- Write small numbers in scientific notation.
- Work word problems.
- Understand order of operations.
- Solve problems using order of operations.
- Review commutative properties of addition and multiplication.
- Review the associative properties of addition and multiplication.
- Review the distributive property.
- Solve problems using properties of operations.
- Review prime factorization.
- Review least common multiple.
- Review greatest common factor.

Unit 2

- Review equivalent fractions.
- Find equivalent fractions.
- Use the product rule to test for equivalent fractions.
- Simplify fractions using the greatest common factor.
- Simplify fractions using cancellation.
- Find common denominators for fractions.
- Find the least common denominator for fractions.
- Solve story problems.
- Review mixed numbers and improper fractions.
- Convert between mixed numbers and improper fractions.
- Review number lines.
- Apply additive inverse.
- Add and subtract like fractions.
- Add and subtract unlike fractions.
- Solve addition and subtraction word problems.
- Add and subtract mixed numbers.
- Solve addition and subtraction word problems.
- Multiply and divide fractions.
- Solve multiplication and division word problems.

- Multiply and divide mixed numbers.
- Solve multiplication and division word problems.

Unit 3

- Review decimals.
- Review decimal numbers.
- Order decimals.
- Solve real-world problems.
- Learn how to round and estimate values for decimals.
- Solve real-life problems.
- Add and subtract decimals.
- Solve real-world problems using decimals.
- Multiply decimals.
- Solve real-world problems by multiplying decimals.
- Divide decimals.
- Solve real-world problems by dividing decimals.
- Understand the relationship between decimals and fractions.
- Change fractions to decimals.
- Change decimals to fractions.
- Understand percent.
- Relate percents to fractions and decimals.
- Understand and apply the metric units of length, weight, and volume to the real world.

Unit 4

- Understand the concept of a ratio.
- Solve real-world ratio problems.
- Find unit rates.
- Use unit rates to solve real-life problems.
- Find a rate of change by using a table.
- Find a constant rate of change by using a table.
- Find a constant rate of change by reading a verbal description.
- Represent a constant rate of change pictorially.
- Know what a proportion is.
- Use proportions to solve problems.
- Find the constant of proportionality.
- Solve inverse proportion problems.
- Use proportions to convert measurements between the customary system and metric system.
- Use unit rates to convert measurements between the customary system and metric system.
- Find the size of real-life objects by using proportions.
- Understand that percentages represent a part-to-whole relationship.
- Solve percent problems using proportional methods.
- Solve percent increase problems using proportional methods.

Unit 5

- Write and evaluate numerical and algebraic expressions.
- Write numerical and algebraic expressions from word problems and real-world situations.
- Apply properties of operations to simplify expressions.
- Write one-variable, two-step equations from real-world situations.
- Write one-variable, two-step inequalities from real-world situations.
- Write word problems from two-step equations.
- Model and solve one-variable, two-step equations using concrete and pictorial representations.
- Solve one-variable, two-step equations mathematically.
- Check and graph solutions to equations.
- Solve real-world problems modeled by two-step equations.
- Solve one-variable, two-step inequalities mathematically.
- Check and graph solutions to inequalities.
- Solve real-world problems modeled by two-step inequalities.
- Recognize when mathematical relationships are linear.
- Recognize the four different representations of linear relationships.
- Identify linear equations.
- Create tables of values or graphs from linear equations.
- Write the linear equation from a table of values.
- Write the linear equation from a graph.
- Determine the slant of a linear graph.
- Recognize when linear equations are proportional and nonproportional in all four representations.
- Write linear equations from real-world situations.

Unit 6

- Identify planes, points, types of lines, line segments, and rays.
- Classify and measure angles.
- Solve equations for unknown angle measures with numerical and algebraic expressions.
- Classify triangles.
- Find missing angles in triangles.
- Solve equations for unknown angle measures of triangles with numerical and algebraic expressions.
- Learn about some types of quadrilaterals.
- Find the missing angle in a quadrilateral.
- Solve equations for unknown angle measures and side lengths of quadrilaterals with numerical and algebraic expressions.
- Determine similarity and congruency.
- Solve problems with similar figures.
- Find the area of some two-dimensional figures.
- Find the circumference of circles.
- Solve problems using the circumference of circles.
- Find the area of circles, semicircles, and quarter-circles.
- Solve problems using the area of circles.
- Find the areas of composite shapes.
- Solve problems using the area of composite figures.

Unit 7

- Identify three-dimensional figures.
- Learn names of parts of three-dimensional figures.
- Find the volume of rectangular prisms.
- Solve word problems to find the volume and missing dimensions of rectangular prisms.
- Find the volume of triangular prisms.
- Solve word problems to find the volume and missing dimensions of triangular prisms.
- Find the volume of rectangular pyramids.
- Solve real-world problems involving rectangular pyramids.
- Find the volume of triangular pyramids.
- Solve real-world problems involving triangular pyramids.
- Relate two-dimensional nets to three-dimensional figures.
- Find the surface area and lateral surface area of three-dimensional shapes by using nets.
- Solve real-world problems by using total and lateral surface area.

Unit 8

- Understand probability.
- Measure and calculate the probability of simple events.
- Describe the sample space of a simple event.
- Use probability to predict future events and solve problems.
- Understand and calculate the complement of an event.
- Make quantitative and qualitative predictions from simple events.
- Find and use experimental probability to predict future events and solve problems.
- Understand the relationship between theoretical and experimental probability.
- Find the probability of compound events.
- Understand and use the fundamental counting principle.
- Represent sample spaces for compound events using tables and tree diagrams.
- Solve problems and make predictions using the probability of compound events.
- Understand and recognize the probability of independent events.
- Understand and recognize the probability of dependent events.
- Find the probability of compound events with replacement.
- Find the probability of compound events without replacement.
- Select and use simulations to represent simple and compound events.
- Find random number generators from online websites.
- Use random number generators to perform simulations.
- Learn how to identify random sampling.
- Make inferences about a population from a random sample.
- Solve problems using data represented in dot plots and bar graphs.
- Solve problems with part-to-part and part-to-whole comparisons.

Unit 9

- Understand how circle graphs are made.

- Use percentages of a circle to find the actual amount of data.
- Solve problems using data represented in circle graphs.
- Solve problems with part-to-part and part-to-whole comparisons.
- Find the mean, median, and mode of sets of numbers and real-life problems.
- Compare mean, median, and mode and select the best measure in real-world problems.
- Draw conclusions from data in box plots.
- Determine and interpret the center, spread, and shape of dot plots.
- Recognize and describe the differences between symmetrical, right-skewed, and left-skewed dot plots.
- Calculate and locate quartiles for a numerical set of data.
- Create box plots from a numerical set of data and interpret data in box plots.
- Draw conclusions from data in box plots.
- Determine and interpret the center, spread, and shape of box plots.
- Recognize and describe the differences between symmetrical, right-skewed, and left-skewed box plots.
- Compare range with interquartile range (IQR).
- Compare the center, shape, and spread of two sets of data by using dot plots and box plots.
- Make inferences about differences between two sets of data by using dot plots and box plots.
- Make inferences and predictions about a population from a random sample.
- Work problems with random sampling presented in dot plots and box plots.
- Compare two populations based upon random samples.
- Make inferences about the difference between two populations based upon random samples.
- Compare the center, shape, and spread of random samples from two populations.

Unit 10

- Find simple interest on money saved and money loaned.
- Find compound interest on money saved and money loaned.
- Compare simple interest and compound interest.
- Determine sale prices using discounts, coupons, and rebates.
- Compute net income.
- Calculate salary income for different pay periods.
- Learn some of the common deductions.
- Understand overtime as part of gross income.
- Learn about income and sales tax.
- Calculate income tax for earned wages.
- Calculate the sales tax for purchases.
- Find the total price of a purchased item.
- Understand that percent change problems represent a part to whole relationship.
- Solve percent increase problems using proportional methods.
- Solve percent decrease problems using proportional methods.
- Solve financial literacy problems using proportional methods.
- Identify fixed and variable expenses.
- Learn about budgeting.
- Find the income needed to meet a basic budget.

- Use a budget estimator to determine a minimum budget and average hourly wage.
- Define assets and liabilities.
- Create an assets and liabilities record.
- Prepare a net worth statement.

8th Grade Math – 2nd Edition

Unit 1

- Understand the relationship between sets of real numbers.
- Convert fractions to decimals.
- Convert decimals to fractions.
- Recognize rational and irrational numbers.
- Find the square root of rational numbers.
- Locate rational approximations of irrational numbers on a number line.
- Use approximations to compare and order real numbers.
- Understand scientific notation.
- Convert numbers between standard decimal notation and scientific notation.
- Apply scientific notation to real-world problems.

Unit 2

- Simplify and evaluate algebraic expressions.
- Solve one-variable, two-step equations.
- Solve and graph one-variable, two-step inequalities.
- Write one variable equations or inequalities with variables on both sides from real-world situations.
- Write real-world problems from one-variable equations or inequalities with variables on both sides.
- Model solving one-variable, two-step equations using concrete and pictorial representations.
- Solve one-variable equations with variables on both sides mathematically.
- Recognize solutions to equations having no solution and equations having an infinite number of solutions.
- Write and solve real-world problems modeled by one-variable equations with variables on both sides.
- Understand and use a problem-solving model.

Unit 3

- Recognize independent and dependent variable quantities in mathematical relationships.
- Identify functions using sets of ordered pairs, tables, mappings, and graphs.
- Determine and calculate the rate of change or slope from equations, tables, and verbal situations.
- Compare properties of functions from different representations.
- Determine and calculate the rate of change or slope from graphs.
- Use similar right triangles on the same graphed line to develop an understanding of slope.

- Develop the slope formula from the slope of a line.
- Use the slope formula to calculate the slope of a line passing through two points.
- Represent linear proportional situations using tables and equations.
- Determine and calculate the rate of change or slope from equations, tables, graphs, and verbal situations.
- Represent linear proportional situations using tables, equations, and graphs.
- Graph proportional relationships using the unit rate as the slope of the line.
- Describe slope as the steepness of the function line.
- Describe slope as the direction of the function line's slant.
- Describe and recognize increasing and decreasing functions from tables, graphs, and verbal situations.
- Solve problems involving direct variation.

Unit 4

- Determine and calculate the slope and y-intercept from equations, tables, graphs, and verbal situations.
- Use similar right triangles on the same graph line to model the slope of a function.
- Write equations in the form of $y = mx + b$ using verbal and numerical situations, graphs, and tables.
- Distinguish between proportional and non-proportional functions using tables, graphs, equations, and verbal situations.
- Represent linear proportional and non-proportional situations using tables, graphs and equations.
- Identify proportional and non-proportional linear functions in mathematical and real-world situations.
- Compare linear functions to non-linear functions.
- Solve systems of linear equations in two variables by locating the intersection of the two graph lines.
- Understand why the point of intersection is the solution to a system of linear equations in two variables.
- Solve real-world and mathematical problems leading to two linear equations in two variables.
- Solve systems of linear equations in two variables algebraically.
- Use a graphing calculator to solve a system of two linear equations in two variables and in slope-intercept form.

Unit 5

- Identify planes, points, lines, types of lines, line segments, rays, and angles.
- Classify and measure angles.
- Find unknown angle measures in geometric figures.
- Solve equations for unknown angle measures with numerical and algebraic expressions.
- Classify triangles.

- Understand the rules of triangles and use them to find unknown angle measurements.
- Solve equations for unknown angle measures of triangles with numerical and algebraic expressions.
- Recognize exterior angles in a triangle.
- Know and understand geometric properties relating to the exterior angles of triangles.
- Use geometric properties relating to the exterior angles of triangles to find unknown interior and exterior angle measurements.
- Know and identify the angles created when parallel lines are cut by a transversal.
- Understand the relationships between the angles created when parallel lines are cut by a transversal.
- Find the unknown measurements of the angles created when parallel lines are cut by a transversal.
- Confirm and validate that triangles are similar by comparing the corresponding parts.
- Solve problems involving similar figures.
- Demonstrate triangles are similar using AA, SAS, and SSS.
- Demonstrate that triangles formed by two transversals crossing parallel lines are similar.
- Solve problems using triangles formed by two transversals crossing parallel lines.

Unit 6

- Know and recognize similarity and congruence between two-dimensional shapes.
- Know that a geometric transformation changes the location, orientation, or size of a two-dimensional shape.
- Know that a dilation is a geometric transformation that results in similar shapes.
- Calculate the scale factor between similar figures.
- Know and recognize dilations, translations, reflections, and rotations.
- Know which geometric transformations remain congruent and which do not.
- Know and recognize the properties of orientation and congruence of translations, reflections, rotations, and dilations of two-dimensional shapes on the coordinate plane.
- Explain the effect of translations applied to two-dimensional shapes on the coordinate plane using algebraic notation, verbal descriptions, and tables.
- Explain the effect of reflections applied to two-dimensional shapes on the coordinate plane using algebraic notation, verbal descriptions, and tables.
- Explain the effect of rotations applied to two-dimensional shapes on the coordinate plane using algebraic notation, verbal descriptions, and tables.
- Explain the effect of dilations applied to two-dimensional shapes on the coordinate plane using algebraic notation, verbal descriptions, and tables.
- Compare and contrast the attributes of a shape and its dilation on the coordinate plane.
- Use algebraic notation to explain the effect of a scale factor on a shape drawn on the coordinate plane.
- Explain the effect of dilations and translations as applied to circles.

- Identify and explain the effect of multiple transformations applied to two-dimensional shapes on the coordinate plane using algebraic notation and verbal descriptions.

Unit 7

- Review area and formulas for area and perimeter.
- Solve problems involving area.
- Understand the effect of dilations on the area of two-dimensional shapes.
- Solve problems involving the effect of dilations on the area of two-dimensional shapes.
- Know the formulas for the surface area of rectangular prisms.
- Solve mathematical and real-world problems involving the surface area of rectangular prisms.
- Know the formulas for the surface area of triangular prisms.
- Solve mathematical and real-world problems involving the surface area of triangular prisms.
- Know the formulas for the surface area of cylinders.
- Solve mathematical and real-world problems involving the surface area of cylinders.
- Compare the volume formula of a cylinder to the volume formula of a prism.
- Describe the volume formula of a cylinder in terms of its base area and its height.
- Learn the volume formulas for prisms and cylinders.
- Solve mathematical and real-world problems involving the volume of prisms and cylinders.
- Model the relationship between the volume of a cylinder and a cone having both congruent bases and heights, and connect that relationship to the formulas.
- Learn the volume formulas for cones.
- Solve mathematical and real-world problems involving the volume of cones.
- Learn the volume formula for spheres.
- Solve mathematical and real-world problems involving the volume of spheres.

Unit 8

- Recognize the types of right triangles.
- Learn the parts of a right triangle.
- Solve problems involving right triangles.
- Understand the Pythagorean theorem.
- Use models or diagrams to explain the Pythagorean theorem.
- Determine if a triangle is a right triangle by satisfying the Pythagorean formula.
- Determine if a triangle is a right triangle using the converse of the Pythagorean theorem.
- Use the Pythagorean theorem to solve real-world and mathematical problems.
- Use the converse of the Pythagorean theorem to solve real-world and mathematical problems.
- Use the Pythagorean theorem to find the distance between two points on the coordinate plane.

Unit 9

- Know and recognize various types of data, including bivariate, continuous, and discrete data.
- Construct scatterplots from discrete, bivariate data sets using tables and ordered pairs.
- Recognize graph breaks and add them appropriately to scatterplots.
- Analyze and interpret scatterplots that include clustering, outliers, and trends.
- Know and determine types of bivariate associations.
- Know and recognize trend lines for linear associations.
- Draw the trend line on scatterplots of linear associations.
- Use the trend line for a linear relationship to solve problems and make predictions about data sets.
- Know what correlations are in the context of linear relationships.
- Interpret the sign of the correlation for a linear relationship.
- Write the equation of a trend line from a scatterplot.
- Use the equation of a trend line to solve problems and make predictions about data sets.
- Select appropriate simulations for generating random samples.
- Generate random samples from populations by using simulations.
- Review how to calculate the mean, median, and interquartile range of a numerical data set.
- Interpret the interquartile range for a numerical data set from real-world situations.
- Understand and calculate the mean absolute deviation for a numerical set of data.
- Calculate and interpret the mean absolute deviation from a set of real-world numerical data.

Unit 10

- Solve problems that involve simple interest and compound interest.
- Explore loans and investments that compare simple interest and compound interest.
- Know what credit is in terms of personal finances.
- Solve real-world problems that compare how interest rates and loan length affect the cost of credit.
- Know the different types of personal finance loans.
- Calculate the APR given a monthly interest rate.
- Compare the total cost for different types of easy-access loans.
- Calculate the total cost of repaying different types of personal loans using an online calculator.
- Identify and explain the advantages and disadvantages of different payment methods.
- Know the difference between financially responsible and irresponsible decisions.
- Analyze personal finance situations and determine if they represent financially responsible decisions.

- Identify the benefits of financial responsibility and the costs of financial irresponsibility in personal finance situations.
- Estimate the costs for attending two-year and four-year colleges and universities.

Algebra I

Unit 1

- Define natural numbers, whole numbers, integers, rational numbers, irrational numbers, real numbers, and imaginary numbers.
- Add and subtract real numbers using the rules for addition and subtraction of real numbers.
- Multiply real numbers using the rules for multiplication of real numbers.
- Divide real numbers using the rules for division of real numbers.
- Use the rules for rounding to estimate answers in problems.
- Identify prime and composite numbers.
- Find the prime factors of numbers.
- Understand and use exponents or powers to find solutions.
- Understand and use roots to solve problems.
- Recognize the parts of a coordinate plane.
- Graph points on the coordinate plane.
- Recognize equivalent fractions.
- Find the least common multiple of numbers.
- Find the least common denominator of fractions.
- Learn how to reduce fractions to lowest terms by prime factorization.
- Find the greatest common factor of two or more whole numbers and fractions.
- Simplify fractions using the greatest common factor.
- Add, subtract, multiply, and divide fractions.

Unit 2

- Define the subject of algebra.
- Know some of the basic terminology of algebra.
- Know how to write an algebraic expression.
- Apply the rules for order of operations to simplify an expression.
- Know how to add like terms.
- Use algebraic properties such as the Commutative and Associative Properties of Addition and Multiplication, and the Distributive Property.
- Understand the three types of mathematical relations—functions, equations,
- and inequalities.
- Solve equations involving addition, subtraction, and inverse operations.
- Solve equations involving multiplication, division, and inverse operations.
- Know how to apply formulas to relationships involving quantities.
- Know how to rearrange formulas to solve for an unknown quantity.
- Understand ratios and proportions and apply them to indirect measurement.
- Find the whole or parts of a whole expressed as percents.
- Express speeds and quantities using unit rates.
- Know how to use conversion factors to convert one unit of measurement to another.

Unit 3

- Define and graph inequalities.
- Learn the five properties of inequality and use them to solve inequalities.
- Solve multi-step inequalities.
- Define and solve compound inequalities.
- Recognize a function by its domain and range in a set of ordered pairs, a mapping diagram, or a graph.
- Determine the function notation for a linear function.
- Determine if a list of numbers is an arithmetic sequence.
- Find the value of a term in an arithmetic sequence.
- Identify linear functions by their graphs, by a table of x- and y-values, by a set of ordered pairs, or by their form.
- Identify equations that are direct variations or inverse variations.
- Understand the intercepts and the slope of a linear equation.
- Relate the graph of a linear equation to its slope-intercept formula.
- Relate the graph of a linear equation to its point-slope formula.
- Graph parallel lines and show the relationship between their slopes.
- Graph perpendicular lines and show the relationship between their slopes.
- Define and compare graphs of linear transformations, such as translations, dilations, and reflections to their parent function.
- Describe changes in linear functions with changes in slope and intercept.

Unit 4

- Define systems of linear equations.
- Differentiate between a linear equation and a system of linear equations.
- Solve linear systems by graphing and checking.
- Solve linear systems using a graphing calculator.
- Understand the limitations with visually interpreting the results of the graphs of some systems of linear equations.
- Solve linear systems by the algebraic method of substitution.
- Use Gaussian elimination to solve systems of linear equations.
- Learn the three types of linear systems by definition and graph.
- Find solutions and graph linear inequalities in two variables.
- Determine whether an ordered pair is a solution to a system of two linear inequalities.
- Graph systems of linear inequalities.
- Apply linear systems solutions to real-life situations.

Unit 5

- Evaluate expressions using positive, negative, and zero exponents.
- Simplify expressions using exponents.
- Relate numbers in standard form with powers of ten notation.
- Read and write very large or very small numbers in scientific notation.

- Convert numbers from standard form to scientific notation and from scientific notation into standard form.
- Use multiplication and division properties of exponents to simplify and evaluate exponential expressions.
- Identify monomials and classify polynomials.
- Write polynomials in standard form.
- Add and subtract first- and second-degree polynomials.
- Multiply first- and second-degree polynomials.
- Understand the relationship between the square of certain binomials, such as the square of a binomial that is the sum of two terms and the square of a binomial that is the difference of two terms to produce a perfect square trinomial.
- Understand the relationship between the product of two binomials that are the sum of two terms and the difference of two terms to produce the difference of two squares.
- Factor polynomials using the greatest common factor.
- Factor quadratic trinomials in the form x2 + bx + c and x2 + bx - c.
- Factor quadratic trinomials in the form ax2 + bx + c and ax2 + bx - c.
- Factor perfect square trinomials.
- Factor the difference of two squares.

Unit 6

- Identify quadratic functions and understand the difference between linear and quadratic functions.
- Identify the characteristics of a quadratic function including the vertex, axis of symmetry, directrix, and focus of a parabola.
- Determine the domain and the minimum or maximum value of the ranges of a quadratic function.
- Graph a quadratic function by plotting points.
- Graph a quadratic function by finding the axis of symmetry, vertex, and y-intercept.
- Describe the change that a transformation, such as a translation, dilation, or reflection of a quadratic function causes in both function notation and in the graph of the function.
- Write a quadratic equation in standard form from a graph if the vertex and one point are known by using the vertex form of the quadratic function.
- Find the zeros of a quadratic function.
- Solve quadratic functions by graphing.
- Solve quadratic equations by factoring.
- Solve quadratic equations by finding square roots.
- Solve quadratic equations by completing the square.
- Solve quadratic equations with the quadratic formula.

Unit 7

- Organize data and represent it in tables, graphs, and charts.
- Organize data and present it in frequency tables, stem-and-leaf plots, and histograms.

- Understand measures of central tendency of data, such as the mean, median, and mode.
- Understand measures of variation of data, such as range and interquartile range.
- Organize data into a box-and-whisker plot.
- Understand sampling in data collection.
- Learn to recognize and avoid bias in data collection.
- Visually represent data using tables and scatter plots.
- Determine the trend or correlation of the given data.

Unit 8

- Find the nth term of a geometric sequence.
- Calculate a geometric series.
- Identify an exponential function by its form, by its graph, and by the relationship between its x-values and y-values.
- Graph exponential functions.
- Distinguish exponential functions from linear or quadratic functions.
- Solve problems involving exponential growth and decay.
- Simplify radical expressions.
- Add, subtract, multiply, and divide radical expressions.
- Rationalize the denominator of a radical expression.
- Solve radical equations.
- Identify square root functions by their domain and range, by their form, and by their graph.
- Graph square root functions.
- Obtain the inverse of a function and determine if it is an inverse function.

Unit 9

- Recognize an inverse variation by its function rule, or by the relationship of its x- and y-values, or by its graph.
- Recognize a rational function and determine its excluded values.
- Graph a rational function.
- Simplify rational expressions and determine excluded values.
- Multiply and divide rational expressions.
- Add and subtract rational expressions with like and unlike denominators.
- Solve rational equations.

Unit 10

- Review formulas for the area and volume of geometric figures, and understand how algebra can be used to calculate area and volume.
- Apply the Pythagorean Theorem to find the lengths of the sides of right triangles.
- Use the Distance Formula to find the distance between points on the coordinate plane.

- Use the Midpoint Formula to find the midpoint of a line segment on the coordinate plane.
- Determine the experimental or theoretical probability of an event.
- Use probability to predict the outcome of an event.
- Calculate the probability from multiple events.
- Solve problems using combinations and permutations.

Math Models

Unit 1

- Recognize different number forms.
- Estimate the solutions of equations.
- Understand when to use scientific notation.
- Convert numbers in standard form to scientific notation and vice versa.
- Determine the reasonableness of solutions.
- Recognize data patterns.
- Represent data graphically.
- Identify independent and dependent quantities.
- Gather and display data in tables, charts, and graphs.
- Write equations or inequalities to model data and predict future trends.
- Represent real-world problems involving data.
- Transform equations using the properties of addition and multiplication.
- Identify slope and intercepts.
- Use direct variation and proportions to solve problems.
- Solve systems of equations.

Unit 2

- Plot points on the coordinate plane.
- Use dilations, reflections, and translations to create similar shapes.
- Apply right triangle properties to solve problems.
- Find the area and perimeter of two-dimensional figures.
- Find the volume and surface area of three-dimensional figures.
- Use proportions and formulas to solve real-world problems.
- Determine the probabilities of dependent and independent events.
- Compare theoretical and experimental probabilities.
- Define range, mean, median, and mode.
- Display data using various types of graphs.
- Analyze graphs and sampling methods.
- Use multiple mathematical processes to solve real-world problems.
- Identify and analyze given information in math problems.
- Apply proper formulas to real-world situations.
- Develop problem-solving strategies.
- Use appropriate properties and terminology to describe and communicate processes mathematically.

Unit 3

- Understand and identify the slope and intercepts of linear equations.
- Develop and interpret circle and line graphs for real-world applications.

- Create scatter plots and write equations using technology.
- Create and understand the use of box and whisker plots to display central tendencies.
- Demonstrate correlations between mean, median, and mode.
- Analyze data for central tendencies.
- Understand and know how to calculate standard deviation.
- Determine appropriate models for data.
- Understand and calculate quadratic and exponential equations.
- Know how to graph quadratic and exponential equations using a calculator.

Unit 4

- Understand the purpose of a research question.
- Define and understand what makes a good hypothesis.
- Learn how to collect and analyze data.
- Know how to draw conclusions given a set of data.
- Know the questions that must be answered when communicating research findings.
- Use appropriate terminology, such as random and unbiased, to explain data and results.
- Validate hypotheses and conclusions using data.
- Understand how to choose an appropriate method to display results.
- Recognize linear, quadratic, and cubic models from a given set of data.
- Find the equations of linear, quadratic, and cubic models.
- Make predictions from a given set of data.

Unit 5

- Define theoretical probability.
- Determine the theoretical probability of dependent and independent events.
- Calculate factorials, permutations, and combinations.
- Define empirical probability.
- Determine outcomes for empirical probability.
- Understand the difference between theoretical and empirical probability.
- Calculate possible outcomes using theoretical or empirical models.
- Understand and calculate the mean, variance, and standard deviation in probabilities.
- Define, determine, and compare and contrast binomial probability using real-life examples and experiments.

Unit 6

- Determine salary.
- Evaluate and determine the value of other types of compensation, such as benefits.
- Know how to create and calculate budgets.

- Calculate deductions, withholdings, and state taxes using income tax tables.
- Estimate unemployment benefits, such as Social Security and Medicare.
- Calculate sales tax.
- Understand banking terminology.
- Understand how to write checks and balance a checkbook.
- Examine the differences between simple and compound interest, and know how to calculate both.
- Write equations and solve problems involving investments.

Unit 7

- Determine wholesale, retail, and markup prices.
- Estimate the cost of credit cards.
- Calculate installment loan payments and cost.
- Determine rental costs.
- Determine buying costs, including closing costs and property taxes.
- Calculate the cost and interest of different types of mortgages.
- Understand what an amortization schedule is.
- Compare renting property to buying property.
- Understand the terminology involved in automobile purchases.
- Compare and calculate used vehicle costs, new vehicle costs, and leasing costs.
- Understand and calculate cost of ownership.

Unit 8

- Examine savings investment options.
- Calculate simple and compound interest.
- Compare simple, compound, and continuously compounded interest in relation to investments.
- Examine different types of insurance.
- Understand various insurance terminology.
- Calculate the costs and benefits of insurance, including copayments and deductibles.
- Understand investment terminology, including terminology associated with annuities and bonds.
- Calculate stock values.
- Examine annuity and bond investments.
- Calculate retirement funds.
- Examine the risks and benefits of various investments.

Unit 9

- Understand growth and decay models.
- Evaluate growth and decay.
- Apply growth and decay models to real-life situations.
- Understand trigonometric functions and ratios, including inverse functions.

- Use trigonometric functions to solve real-life problems.
- Convert radians to degrees and degrees to radians.
- Model periodic motion using sine, cosine, and tangent.
- Understand direct, inverse, and joint variation.
- Connect variation to science concepts and laws of physics.
- Evaluate variation problems.

Unit 10

- Identify the types of transformations and their properties.
- Transform geometric shapes through translation, rotation, and reflection.
- Determine whether a figure has reflection or rotational symmetry.
- Understand perspective and patterns in art and architecture.
- Determine scale factor.
- Understand mathematical patterns, including the golden ratio and tessellation.
- Identify and understand transformations in music.
- Calculate proportional relationships in music.
- Understand that ratios can indicate consonance or dissonance in music.
- Model harmonic motion.

Geometry

Unit 1

- Introduce and define the subject of geometry and contrast Euclidean geometry with non-Euclidean geometry.
- Provide a guideline for passing this course.
- List the tools needed for the course.
- Describe the undefined terms point, line, and plane.
- Use undefined terms to define other geometric figures, such as line segment, ray, and endpoint.
- Introduce postulates about points, lines, and planes.
- Use postulates to justify statements involving points, lines, and planes.
- Learn how to find the length of a line segment by using the Ruler Postulate and one-to-one correspondence.
- Use construction to create congruent line segments.
- Define segment bisectors and midpoints.
- Use the midpoint of a line segment to find the length of segments.
- Understand how to plot and read points on a coordinate plane.
- Use the midpoint formula to calculate the midpoint of a line segment on a coordinate plane.
- Use the distance formula to calculate the length of a line segment on a coordinate plane.
- Learn the proper use of a compass.
- Learn how to construct congruent line segments.
- Learn how to define an angle and the types of angles.
- Use the Protractor Postulate and a protractor to find the measure of an angle.
- Use the Angle Addition Postulate to determine the measure of angles.
- Learn how to construct congruent angles and angle bisectors.
- Learn how to define and recognize adjacent angles, linear.

Unit 2

- Gain a basic understanding of inductive reasoning, conjecture, and counterexample.
- Understand the structure, form, and use of conditional statements.
- Know how to evaluate the truth value of conditional statements.
- Become familiar with the concept of related conditional statements, such as converse, inverse, and contrapositive conditional statements.
- Be able to construct a proper biconditional.
- Understand the qualities of a definition in Geometry.
- Use the Law of Detachment and the Law of Syllogism to prove the validity of statements.
- Review algebraic properties of equality and properties of equality and operation.
- Be introduced to geometric properties of congruence.
- Learn the format for a formal proof.
- Know how to conduct a formal algebraic proof.

- Know how to conduct a formal geometric proof.

Unit 3

- Understand the relationship between concurrent, coincident, parallel, skew, and Perpendicular lines.
- Know the relationships between corresponding, alternate interior, alternate exterior, and same-side interior angles.
- Discover the relation between angles formed when two parallel lines are cut by a transversal.
- Prove that alternate interior angles and alternate exterior angles formed by two parallel lines cut by a transversal are congruent.
- Prove that same-side interior angles or same-side exterior angles formed by two parallel lines cut by a transversal are supplementary.
- Understand that the converse of certain postulates and theorems can be used as justification in some geometric proofs.
- Prove that lines cut by a transversal are parallel if their alternate interior angles or alternate exterior angles are congruent.
- Prove that lines cut by a transversal are parallel if their same-side interior angles or same side exterior angles are supplementary.
- Understand the angle-pair relationships when two parallel lines are cut by a Perpendicular transversal.
- Prove relationships with perpendicular lines.
- Learn how to find the slope of a line.
- Use the coordinate plane to identify parallel and perpendicular lines.
- Understand the relationship between pairs of lines based on their slopes and their y-intercepts.

Unit 4

- Be able to define and recognize a polygon.
- Know the difference between regular and irregular polygons and between concave and convex polygons.
- Use the Polygon Angle Sum Theorem and the Polygon Exterior Angle Sum Theorem to find the measure of the angles of convex polygons.
- Know how to distinguish between acute, obtuse, and right triangles based on the measure of their angles, and between isosceles and scalene triangles based on the measure of their sides.
- Be able to prove and apply the Triangle Sum Theorem, three corollaries of the Triangle Sum Theorem, the Exterior Angle Theorem, and the Third Angles Theorem.
- Understand the concept of corresponding sides and angles of polygons and how they determine polygon congruence.
- Know how to determine if two triangles are congruent by the Side-Side-Side Congruence Postulate, the Side-Angle-Side Congruence Postulate, the Angle-Side-Angle Congruence Postulate, and the Angle-Angle-Side Congruence Theorem.
- Understand the unique characteristics of right triangles.

- Know how to determine if two right triangles are congruent by the Leg-Leg Congruence Theorem, Leg-Angle Congruence Theorem, Hypotenuse-Angle Theorem, and the Hypotenuse-Leg Theorem.
- Understand the converse of the definition of congruent triangles, also known as CPCTC.
- Know how to prove and use CPCTC, the Isosceles Triangle Theorem, the corollary of the Isosceles Triangle Theorem, the Converse of the Isosceles Triangle Theorem, and the corollary of the Converse of the Isosceles Triangle Theorem.
- Learn how to use a coordinate proof to prove aspects of triangles.

Unit 5

- Prove and apply the Perpendicular Bisector Theorem and the Converse of the Perpendicular Bisector Theorem.
- Prove and apply the Angle Bisector Theorem and the Converse of the Angle Bisector Theorem.
- Learn how to determine the circumcenter and the incenter of a triangle.
- Prove and apply the Circumcenter Theorem and the Incenter Theorem.
- Learn how to determine the median and the altitude of a triangle.
- Become familiar with the Centroid Theorem.
- Learn how to apply the Triangle Midsegment Theorem.
- Learn how to apply triangle inequalities.
- Understand how to conduct an indirect proof.
- Learn how to apply triangle inequalities to two triangles.
- Know the Hinge Theorem and the Converse of the Hinge Theorem.
- Use the Pythagorean Theorem and the Converse of the Pythagorean Theorem to solve problems regarding right triangles.
- Understand how the Pythagorean Inequalities Theorem can be used to identify triangles.
- Apply properties of 45°–45°–90° and 30°–60°–90° triangles.

Unit 6

- Prove and understand the theorems that deal with the properties of parallelograms.
- Apply the properties of parallelograms to problems.
- Prove and apply theorems that express the sets of conditions for a parallelogram that allow you to prove a quadrilateral is a parallelogram.
- Prove theorems that deal with the properties of rectangles and with the conditions where by you can determine if a parallelogram is a rectangle.
- Prove theorems that deal with the properties of rhombuses and with the conditions whereby you can determine if a parallelogram is a rhombus.
- Prove theorems that deal with the properties of kites and trapezoids.
- Review formulas for the perimeter and area of squares, rectangles, and triangles.
- Develop formulas for the perimeter and area of kites, parallelograms, rhombuses, and trapezoids.

- Learn to calculate the area of a regular polygon and the area of a composite figure.

Unit 7

- Define a circle and its parts.
- Develop and apply formulas for the circumference and area of circles.
- Be able to identify pairs of congruent, concentric, or tangent circles.
- Understand the relationship between lines and segments with circles, especially with regards to tangents, secants, and chords.
- Use theorems regarding tangents to solve problems involving circles.
- Understand the concepts of major arcs, minor arcs, and semicircles.
- Apply the properties of arcs and chords to circles.
- Know how to calculate the area of sectors and segments of a circle.
- Be able to find the length of an arc in linear units.
- Understand the relationship between inscribed angles and their intercepted arcs and prove theorems and corollaries that describe those relationships.
- Prove that the opposite angles of an inscribed quadrilateral are supplementary.
- Understand the relationship between intersecting line pairs that intersect at the point of tangency, line pairs that intersect in the interior of a circle, and line pairs that intersect in the exterior of a circle.
- Prove theorems describing the relationship between secants, tangents, and circles.

Unit 8

- Identify and classify geometric solids according to their properties.
- Analyze geometric solids using nets.
- Represent geometric solids using orthographic, isometric, and perspective drawings.
- Identify geometric solids from orthographic, isometric, and perspective drawings.
- Be familiar with the life and accomplishments of Leonard Euler.
- Understand the relationship between number of vertices, edges, and faces of convex polyhedral in light of Euler's formula.
- Know how to graph geometric solids on the three-dimensional coordinate system and apply the distance and midpoint formulas in three dimensions.
- Derive and apply the formula for the lateral area and surface area of a prism.
- Apply the formula for the volume of a prism.
- Derive and apply the formula for the lateral area and surface area of a cylinder.
- Apply the formula for the volume of a cylinder.
- Derive and apply the formula for the lateral area and surface area of a pyramid.
- Apply the formula for the volume of a pyramid.
- Derive and apply the formula for the lateral area and surface area of a cone.
- Apply the formula for the volume of a cone.
- Apply the formula for the surface area and volume of a sphere.

Unit 9

- Review ratios and proportions.
- Apply properties of proportions.
- Identify similar polygons.
- Apply the AA Similarity Postulate, and also prove and apply the SSS Similarity Theorem and the SAS Similarity Theorem.
- Prove theorems of triangle proportionality and apply them to determine the length of segments.
- Learn how to use ratios and proportions to make indirect measurements.
- Understand how to create and read scale drawings.
- Know how to use proportions as conversion factors.
- Identify, draw, and graph isometries, such as reflections, rotations, and translations.
- Identify, draw, and graph dilations.
- Recognize and draw a composition of transformations.
- Identify symmetry in geometric figures.
- Learn how tessellations are formed.

Unit 10

- Understand the similarity relationships that exist in right triangles and apply those relationships to solve problems involving segment length.
- Use geometric means to calculate the length of segments of right triangles.
- Know the six trigonometric ratios.
- Find the sine, cosine, and tangent of an acute angle of a right triangle.
- Use trigonometric ratios to determine the length of the sides of a right triangle.
- Use inverse trigonometric ratios to determine the measure of an acute angle of a right triangle.
- Use trigonometric ratios to calculate angles of elevation and depression.
- Use the Law of Sines and the Law of Cosines to find unknown side lengths and angle measures of acute and obtuse triangles.
- Understand how reference angles are used to find the trigonometric functions of angle measure greater than 90°.
- Define a unit circle and recognize how it can be used to geometrically portray trigonometric functions.
- Know how radians relate to degree measures and know how to convert degrees into radians.

Algebra II

Unit 1

- Know the set of real numbers and its subsets.
- Understand how the operations of addition, subtraction, multiplication, and division apply to the real numbers.
- Understand the closure properties as they apply to the operations and subsets of the real numbers.
- Know the properties of the relations less than < ( ), greater than > ( ), and equal to = ( ).
- Know the properties of arithmetic as they apply to the real numbers and its subsets.
- Add, subtract, multiply, and divide polynomials.
- Understand the similarities and differences between polynomials and subsets of the real numbers.
- Solve linear equations and linear inequalities.
- Graph linear equations and linear inequalities.
- Solve quadratic equations and quadratic inequalities.
- Graph quadratic equations and quadratic inequalities.
- Solve radical and rational equations in one variable.
- Graph selected exponential, radical, and rational equations in two variables.
- Identify a relation as a set of ordered pairs.
- Classify a function as a relation in which each member of the domain is paired with exactly one member of the range.
- Know that the inverse of a relation may be found by interchanging the domain and range values in each ordered pair of the relation.
- Distinguish between the graphs of relations and functions by using the vertical line test.
- Recognize that the graphs of a relation and its inverse may be identified by reflection over the line y = x .

Unit 2

- Write a linear equation in standard form.
- Write a linear inequality in standard form.
- Write a linear equation in slope-intercept form.
- Write a linear inequality in slope-intercept form.
- Understand piecewise-defined linear relations.
- Understand absolute value.
- Graph linear equations in two unknowns.
- Graph linear inequalities in two unknowns.
- Graph piecewise linear relations and functions.
- Understand composition of functions.
- Find the compositions of linear functions.
- Calculate inverses of linear functions.

- Determine when the inverse of a function is itself a function.
- Verify inverse relations using composition of functions.
- Understand that linear relations can involve more than two unknowns.
- Express linear equations and inequalities with three unknowns in standard form.
- Find solutions to linear relations in three unknowns.
- Find solutions to linear systems in two unknowns graphically.
- Find solutions to linear systems in two unknowns by Gaussian elimination.
- Find solutions to linear systems in more than two unknowns by Gaussian elimination.

Unit 3

- Recognize a matrix as a rectangular array of numbers.
- Identify the elements of a matrix.
- Determine the dimensions of a matrix by inspecting the number of rows and the number of columns of the matrix.
- Know when matrices may be added or subtracted.
- Add two matrices when addition is permitted.
- Subtract two matrices when subtraction is permitted.
- Understand that the opposite of a matrix is found by taking the opposite of each entry in the matrix.
- Multiply a matrix by a scalar.
- Know when it is possible to multiply two matrices.
- Multiply two matrices when it is possible.
- Perform elementary row operations on matrices.
- Solve systems of linear equations using matrices and elementary row operations.
- Calculate the determinant of a square 2×2 or 3×3 matrix.
- Apply Cramer's rule to solve linear systems.
- Use determinants to decide if a square matrix will have an inverse.
- Use elementary row operations to find the inverse of a square matrix.
- Learn an alternate way to find the inverse of a square matrix.

Unit 4

- Describe a conic section as the intersection of a plane and a cone.
- Identify a circle from its equation.
- Describe a circle as the intersection of a cone with a plane perpendicular to the axis of the cone.
- Determine the equation of a circle given the coordinates of three points on the circle.
- Sketch the graph of a circle given its equation.
- Describe changes in the graph or equation of a circle given parameter changes in the equation such as change of radius or change of center.
- Identify an ellipse from its equation.
- Find the vertices, the co-vertices, the eccentricity, and the foci of an ellipse.
- Describe an ellipse as the intersection of a cone with a plane at an angle less than the slope of the cone.

- Sketch the graph of an ellipse given its equation.
- Describe changes in the graph or equation of an ellipse given parameter changes in the equation such as change of center, change of vertices, change of co-vertices, change of foci, or change of eccentricity.
- Identify a hyperbola from its equation.
- Describe a hyperbola as the intersection of a cone with a plane at an angle greater than the slope of the cone.
- Sketch the graph of a hyperbola given its equation.
- Describe changes in the graph or equation of a hyperbola given parameter changes in the equation such as change of center, change of vertices, change of foci, or change of eccentricity.
- Identify a parabola from its equation.
- Describe a parabola as the intersection of a cone with a plane at an angle equal to the slope of the cone.
- Sketch the graph of a parabola given its equation.
- Describe changes in the graph or equation of a parabola given parameter changes in the equation such as change of vertex, change of focus, or change of directrix.
- Describe similarities and differences in the equations and parameters of the conic sections.

Unit 5

- Find solutions to quadratic equations and inequalities by completing the square and graphing.
- Find solutions to quadratic equations and inequalities by factoring.
- Understand the development of the quadratic formula from the technique of completing the square.
- Use the quadratic formula to solve quadratic equations with real roots.
- Find solutions to quadratic equations and inequalities using the quadratic formula.
- Graph quadratic equations.
- Understand the development of imaginary numbers as a way to find solutions to certain quadratic polynomial equations.
- Understand the development of complex numbers as a way to find solutions to all quadratic polynomial equations.
- Represent complex numbers on a Cartesian coordinate system with a horizontal real axis and a vertical imaginary axis.
- Add and subtract complex numbers.
- Represent the sums of complex numbers on a Cartesian coordinate system with a horizontal real axis and a vertical imaginary axis.
- Find products and quotients of complex numbers.
- Describe the intersection of a line and a parabola.
- Find the solutions to a system of equations, one of which is linear and the other of which is quadratic.
- Describe the intersection of a line and a conic section.
- Describe the intersection of two conic sections.

- Find the solutions to a system of equations, one of which is linear and the other of which is the equation of a conic section, or when both are equations of conic sections.

Unit 6

- Add or subtract polynomials.
- Understand that the set of polynomials is closed under addition and subtraction.
- Multiply or divide polynomials.
- Understand that the set of polynomials is closed under multiplication and not closed under division.
- Factor polynomials by applying the factoring patterns difference of squares, difference of cubes, sum of cubes, and perfect square trinomials.
- Use Pascal's Triangle to determine when a polynomial is a power of a binomial.
- Divide a polynomial by a linear polynomial in the form x+a by using synthetic division.
- Find the roots of polynomials by finding factors of the polynomials.
- Recognize that the roots of a polynomial are the values that make the polynomial equal to zero.
- Recognize that the real roots of a polynomial are the points where the graph of the related polynomial function crosses the x- axis.
- Use the factors of the leading coefficient and the constant term of a polynomial to determine possible rational roots of the polynomial.
- Use synthetic division to find function values of a polynomial function.
- Find the inverse of a polynomial function.
- Graph the inverse of a polynomial function.
- Recognize that the graph of the inverse of a polynomial function is the reflection of the graph of the polynomial function over the line y = x.
- Determine when the inverse of a polynomial function is a function by using the vertical line test on the inverse, or the horizontal line test on the polynomial function.
- Find the composition of polynomial functions.
- Explore the domain and range of polynomial functions.

Unit 7

- Simplify rational expressions using factoring.
- Simplify rational expressions using division or synthetic division.
- Sketch the graphs of rational equations, including the graph of the parent function f xx( )=1.
- Describe the effects of parameter changes on the graphs of rational functions, such as f x a bx c( )= ++.
- Describe limitations on the domains of rational functions.
- Determine the horizontal asymptotes of a rational function.
- Determine the vertical asymptotes of a rational function.
- Determine the oblique asymptotes of a rational function.
- Find solutions to rational inequalities.

- Graph solutions to rational inequalities.
- Use properties of exponents to simplify expressions involving fractional exponents.
- Relate expressions using a radical symbol with expressions using fractional exponents.
- Simplify expressions using radicals and fractional exponents.
- Sketch the graphs of radical equations and inequalities.
- Find solutions to radical equations and inequalities from graphs.
- Describe and predict the effects of parameter changes on the graphs of radical equations.
- Find the inverse of a radical equation.
- Connect the inverse of a square root function with quadratic functions.
- Note that the graph of the inverse may be found or identified by reflection over the line y = x .
- Simplify the composition of functions when one or both functions is a radical function.
- Simplify the composition of functions when one or both functions is a rational function.
- Understand that the composition of functions in general is not commutative.

Unit 8

- Explore exponential functions.
- Recognize differences in graphs of exponential functions with different bases.
- Explore transformations of exponential functions when certain parameters are changed.
- Analyze and solve problems modeled by exponential functions.
- Explore the inverses of exponential functions.
- Recognize the graph of the inverse of an exponential function by reflecting over the line y = x.
- Explore logarithmic functions.
- Recognize differences in graphs of logarithmic functions with different bases.
- Explore properties of logarithmic functions.
- Use the properties of logarithmic functions to change between bases.
- Recognize the effect on the graph of a general logarithmic function of the form
- f x a c dx g b ( )= + log (+) if one of the parameters a, c, d, or g is changed.
- Sketch the graphs of exponential and logarithmic inequalities.
- Find solutions to exponential and logarithmic inequalities from graphs.

Unit 9

- Calculate the mean of a set of numerical data.
- Calculate the variance of a set of numerical data.
- Calculate the standard deviation of a set of numerical data.
- Explore some properties of the standard normal curve.
- Understand the concept of factorial.

- Calculate the factorial of a given counting number.
- Use factorials to calculate binary coefficients.
- Use binary coefficients to calculate probabilities of repeated events.
- Explore conditional probability.
- Determine whether or not events are independent.
- Explore compound events.
- Calculate expected value.
- Use expected value to make decisions.
- Select an appropriate model among linear, quadratic, and exponential models.
- Write a linear, quadratic, or exponential function from a given set of data.
- Predict and make decisions and judgments from data.

Unit 10

- Use the properties of similar triangles to develop the basic trigonometric ratios.
- Use the basic trigonometric ratios to solve right triangles.
- Extend the trigonometric ratios to obtuse angles by using the law of sines and the law of cosines.
- Use the law of sines and the law of cosines to find the measures of sides and angles of triangles.
- Develop the concept of radian as another way to measure angles.
- Convert between radians and degrees.
- Extend the concepts of the trigonometric ratios to trigonometric functions of real numbers.
- Explore the graphs of the trigonometric functions.
- Explore periodic motion.
- Model periodic motion with the sine and cosine functions.
- Develop the reciprocal trigonometric functions secant, cosecant, and cotangent.
- Understand and use the Pythagorean trigonometric identities.
- Understand and use other trigonometric identities.
- Derive trigonometric formulas to find the values of trigonometric ratios for sums, differences, and multiples of angles, and for powers of the trig ratios.
- Solve problems using trigonometry.

PreCalculus

Unit 1

- Understand rational numbers as real numbers and identify the types.
- Understand irrational numbers as real numbers.
- Understand the difference between rational and irrational numbers.
- Recognize some basic number properties and apply the properties.
- Understand absolute value and the properties.
- Understand the six laws concerning exponents and apply to equations.
- Understand the properties and laws of radicals then simplify.
- Rationalize expressions containing radicals.
- Factor polynomials using the common factor method.
- Solve quadratic equations.
- Become familiar with the parts of the Cartesian coordinate system.
- Understand the importance of the rectangular coordinate system.

Unit 2

- Identify a parent function by its functional notation and by its graph.
- Understand piecewise functions.
- Apply various transformations to a parent function and describe each.
- Identify even and odd functions by their functional notation and graphs.
- Identify even and odd functions by their table of values.
- Understand the relationship between domain and range.
- Determine if graphs are of functions using the vertical line test.
- Find domains and ranges of sets and graphs.
- Find the zero value of functions.
- Understand increasing, decreasing, and constant functions.
- Show both graphically and algebraically the upper and lower limits of functions.
- Find composite functions.
- Find the sum, difference, product, and quotient of functions.
- Find inverse functions.

Unit 3

- Find the slope of a line.
- Use the slope-intercept and point-slope forms to find linear functions of lines.
- Apply functions to real-life situations.
- Use two-point and intercept forms to find linear functions.
- Use slopes to determine if two lines are parallel or perpendicular.
- Construct scatter plots to represent real-life relationships.
- Determine a regression line to best fit points plotted on a scatter graph.
- Find the correlation coefficient of a regression line algebraically.
- Find the slope, y-intercept, and correlation coefficient of a regression using a graphing calculator.
- Find the vertex and the x- and y-intercepts of a quadratic.

- Determine the opening of a parabola from its quadratic equation.
- Identify polynomials by their graphs.
- Identify two types of monomial graphs.
- Note the characteristics of a polynomial created from two monomials.
- Understand the end behavior of a polynomial.
- Learn how the leading term affects the end behavior.
- Learn the three different types of asymptotes.
- Find the asymptotes of a function.

Unit 4

- Identify exponential functions as different from power functions.
- Use a calculator to find the value of exponential functions and identify their graphs.
- Transform the graph of an exponential function by changing the base or exponent.
- Algebraically solve natural exponential functions for various values.
- Use a graphing calculator to graph natural exponential functions.
- Solve real-life problems using exponential functions.
- Differentiate between an exponential and logistic function.
- Learn the characteristics of logistic functions and apply them to real-life situations.
- Relate logarithmic functions to exponential functions and solve logarithmic problems using both tables and graphing calculator.
- Learn the properties of logarithms and natural logarithms and use them in problem solving.
- Use the change-of-base formulas to find answers to common and natural logarithms.
- Sketch logarithms from graphing calculator.

Unit 5

- Understand the concepts of angle and degree.
- Convert between degrees and radians.
- Find the arc length of angles measured in degrees or radians.
- Use arc lengths in real-time applications.
- Relate trigonometric functions to a unit circle.
- Apply right-angle trigonometry to learn the trigonometric functions.
- Understand that the sign of the value of a trigonometric function depends on which quadrant it is located.
- Relate the degree of an angle to its quadrant and determine the sign of its value.
- Find trigonometric values using a table for trigonometric functions and a calculator.
- Use degree and radian measures to work problems.
- Use trigonometric functions to find various parts of a right triangle.
- Apply trigonometric functions to solve real-life problems.
- Determine the general shape of graphs of sine and cosine functions.
- Apply algebraic properties to sine functions and draw graphs.

- Show transformations of sine and cosine curves.
- Identify the graphs of the tangent, cotangent, secant, and cosecant functions.
- Show graphically the relationship of the tangent, secant, and cosecant functions to their reciprocal functions.
- Understand what the inverse of a function means.
- Find the inverse of trigonometric functions.

Unit 6

- Learn reciprocal and quotient trigonometric identities.
- Prove identities algebraically and graphically to be true.
- Use identities to rewrite expressions as a single trigonometric function.
- Learn the Pythagorean identities.
- Use Pythagorean identities to find trigonometric values.
- Use Pythagorean and other identities to simplify trigonometric expressions.
- Learn sum-and-difference formulas.
- Find values of trigonometric functions containing sums or differences of angles.
- Simplify expressions containing sums or differences of two angles.
- Find double-angle identities from sum identities and apply them to problems.
- Find half-angle identities from double-angle identities and apply them to problems.
- Prove and use power-reducing identities to solve problems.
- Solve problems using product-to-sum formulas.
- Solve problems using Law of Sines.
- Use the formula for the area of an oblique triangle to solve problems.
- Solve problems using Law of Cosines.

Unit 7

- Learn what a sequence is and find formulas describing sequences.
- Find terms in a sequence using its formula.
- Understand the Fibonacci sequence and its relationship to nature.
- Find missing terms in the Fibonacci sequence.
- Define and understand arithmetic sequences.
- Solve problems for arithmetic sequences and series.
- Understand and solve problems for finite geometric sequences and series.
- Understand finite and infinite sequences and series and find their limits.
- Determine whether a sequence/series is convergent or divergent.
- Find the terms of sequences that contain factorials.
- Evaluate factorial expressions.
- Find the number of trailing zeros.
- Solve binomials with power greater than two.
- Find the coefficients for higher-power binomials using the Binomial Theorem.
- Learn the construction of Pascal's Triangle.
- Use Pascal's Triangle to place coefficients in different types of binomial expansions.

Unit 8

- Identify conic sections.
- Identify degenerate conic sections.
- Apply rules to identify types of conics.
- Analyze, graph, and find equations of parabolas.
- Learn about different applications of parabolas.
- Use parabolas to solve real-life problems.
- Learn about the different parts of an ellipse.
- Use the equation of an ellipse to solve problems and applications in real life.
- Use the concept of eccentricity.
- Use the equations for a circle to solve problems.
- Find the asymptotes and eccentricity of hyperbolas.
- Use hyperbolic equations to solve problems.

Unit 9

- Understand the parts of a vector.
- Use the Distance Formula to find the magnitude value of a vector.
- Add and multiply vectors by a real number.
- Define and find unit vectors.
- Write vectors as linear combinations of unit vectors.
- Express the components of a vector in terms of its direction vector.
- Find the direction angle of a vector.
- Learn some properties of dot product.
- Use the properties to find the dot products of two vectors.
- Find the angle between two vectors.
- Separate vectors into their component vectors using projection.
- Use vectors in real-life situations.

Unit 10

- Identify parametric equations.
- Change parametric equations to rectangular equations.
- Use parametric equations to solve real-life problems.
- Learn about the polar coordinates system.
- Graph points in a polar coordinate system using both radian and degree measure.
- Change polar coordinates to rectangular coordinates.
- Change rectangular coordinates to polar coordinates.
- Graph different types of polar graphs by point plotting and using a graphing calculator.
- Identify types of polar graphs.

Kindergarten ELA

Unit 1

- Questions help readers learn.
- Understand nursery rhymes.
- Details give more information.
- Characters are in stories.
- Settings are in stories.
- Main events are in stories.
- Problems are in stories.
- Kindness is shown by helping.
- Question words are in stories.

Unit 2

- Authors write.
- Fables teach morals.
- Fables have characters.
- Fables have problems.
- Find morals in fables.
- Find characters in fables.
- Find problems in fables.
- Find morals in fables.

Unit 3

- Illustrators draw.
- "Sleeping Beauty" is a story.
- "Sleeping Beauty" is a fairy tale.
- There is a problem in "Sleeping Beauty."
- There is a resolution in "Sleeping Beauty."
- "Sleeping Beauty" has an ending.
- "Jack and the Beanstalk" is a fairy tale.
- There are problems in "Jack and the Beanstalk."
- There is magic in "Jack and the Beanstalk."
- There are resolutions in "Jack and the Beanstalk."

Unit 4

- Folktales are stories.
- "The Three Little Pigs" is a story.
- Stories have themes.
- A play is a story.
- A play starts with someone speaking.
- A play has events.

- A play has an ending.
- Plays have themes.

Unit 5

- A book has different parts.
- A reader finds details.
- We enjoy nursery rhymes.
- Fables teach us.
- Fairy tales tell us happy endings.
- Folktales tell a very old story.
- Plays have only the words that characters say.
- Themes are lessons we learn from stories on our own.
- We write personal narratives about ourselves.

Unit 6

- Tell facts from informational text.
- Find details in informational text.
- Do things from informational texts.
- Use directions to learn how to do things.
- Use directions to brush teeth.
- Tell the information from recipes.
- Use a recipe to tell how to make pizza.
- Tell what words mean.

Unit 7

- Answer questions about “What Is the Fair?”
- Find facts in “The Four Seasons.”
- Use an informational text to learn about vegetables.
- Find synonyms and descriptions in a poem.
- Find information in “Ways to Move.”
- Practice information from “Ways to Move.”
- Find information in “Welcome to the Fair.”
- Find information in “Where at the Fair?”
- Find information in “Light in the Sky.”

Unit 8

- Answer questions about “Everyone Eats.”
- Answer questions about “What to Wear in Ecuador.”
- Answer questions about “We Celebrate.”
- Answer questions about “Clothes in China.”
- Answer questions about “How Children Play.”

- Answer questions about “Ready for Hockey.”
- Answer questions about “We Love a Parade.”
- Answer questions about “Everyone Eats.”

Unit 9

- Understand opinions.
- Understand describing words.
- Understand reasons.
- Understand author’s purpose.
- Understand how to persuade.
- Understand words that persuade.
- Understand purposes for poems.
- Understand purposes for letters.

Unit 10

- Understand research.
- Understand digital text.
- Understand how to research.
- Find important information.
- Practice research skills.
- Understand how to present research.
- Understand how to revise.
- Understand how to edit.

Kindergarten ELA – 2nd Edition

Unit 1

- I will learn what is in a story.
- I will learn about nursery rhymes.
- I will learn about details.
- I will learn about characters in stories.
- I will learn about the setting.
- I will learn about events in stories.
- I will learn about the order of events in stories.
- I will learn about problems in stories.
- I will learn about causes.

Unit 2

- I will learn about fables.
- I will listen to a fable.
- I will find the characters in “The Lion and the Mouse.”
- I will find the problems in “The Lion and the Mouse.”
- I will find the resolution in “The Lion and the Mouse.”
- I will describe the characters in “The Tortoise and the Hare.”
- I will find the Hare’s problem in “The Tortoise and the Hare.”
- I will find the Tortoise’s problem in “The Tortoise and the Hare.”
- I will find the moral in “The Tortoise and the Hare.”

Unit 3

- I will learn about fairy tales.
- I will listen to “Sleeping Beauty.”
- I will describe the beginning of “Sleeping Beauty.”
- I will describe the middle of “Sleeping Beauty.”
- I will describe the ending of “Sleeping Beauty.”
- I will learn about nouns.
- I will listen to “Jack and the Beanstalk.”
- I will describe the beginning of “Jack and the Beanstalk.”
- I will describe the middle of “Jack and the Beanstalk.”
- I will describe the ending of “Jack and the Beanstalk.”

Unit 4

- I will learn about folktales and verbs.
- I will find the problem in “The Three Little Pigs.”
- I will listen to the end of “The Three Little Pigs.”
- I will learn about themes.
- I will learn about plays.

- I will learn about main characters.
- I will listen to the beginning of “The Gingerbread Man.”
- I will listen to the middle of “The Gingerbread Man.”
- I will listen to the end of “The Gingerbread Man.”

Unit 5

- I will learn the parts of a book.
- I will listen for nouns in “Little Red Riding Hood.”
- I will listen to “Little Red Riding Hood” for verbs.
- will listen to “Little Red Riding Hood” for adjectives.
- I will learn about pronouns.
- I will learn about sentences.
- I will practice writing sentences.
- I will learn about three kinds of sentences.
- I will read an example of a personal narrative.

Unit 6

- I will learn about informational texts.
- I will use an informational text to learn about vegetables.
- I will use an informational text to learn about fairs.
- I will use an informational text to find things at the fair.
- I will find synonyms.
- I will use an informational text to learn about the ways rides move.
- I will use an informational text to learn about the food at the fair.
- I will use prepositions.
- I will use an informational text to learn about the sun.

Unit 7

- I will learn how to use a picture dictionary.
- I will practice finding the topic.
- I will practice finding the details.
- I will practice finding the central idea.
- I will review the parts of informational texts.
- I will practice asking questions about a text.
- I will use informational texts to answer questions.
- I will learn how to read directions.
- I will learn how to give directions.

Unit 8

- I will get ready to learn about countries.
- I will learn about Ecuador.
- I will read and understand a poem.

- I will read and understand a poem.
- I will learn about sports played in China.
- I will learn about Canada.
- I will learn about Canada's holidays.
- I will learn what people eat in different countries.
- I will learn how to use a postcard.

Unit 9

- I will identify opinions.
- I will use pronouns correctly.
- I will understand how reasons support opinions.
- I will understand persuasive texts.
- I will understand three kinds of author's purpose.
- I will find the author's purpose for poems.
- I will learn why poets use rhythm.
- I will learn why authors use sensory words.
- I will learn why authors use illustrations.

Unit 10

- I will know how to begin researching.
- I will know why we ask research questions.
- I will practice finding answers to research questions.
- I will learn how to draft a presentation.
- I will practice revising a presentation.
- I will edit the parts of a sentence.
- I will edit prepositions and pronouns.
- I will practice spelling and handwriting.

Kindergarten Phonics Spelling & Penmanship

Unit 1

- Same and different objects
- Circle tracing
- Same and different animal sounds
- Thumb and pointer finger exercise
- Same and different words
- Thumb and pointer finger exercise
- First and last object
- Names of lines on paper
- First and last animal sounds
- Line tracing with fingers
- First and last word
- Line tracing with fingers
- Beginning sounds of words
- Correct pencil grip
- Same and different beginning sounds
- Circle and line writing

Unit 2

- Sounds for c and o
- Writing c and o
- Sounds for a and g
- Writing a and g
- Sound for d
- Writing d
- Sounds for s and f
- Writing s and f
- Sounds for qu and b
- Writing qu and b
- Sounds for e
- Writing e
- Sounds for h and i
- Writing h and i
- Sounds for j and k
- Writing j and k
- Sound for l
- Writing l

Unit 3

- Sounds for m and n
- Writing m and n

- Sounds for p and r
- Writing p and r
- Sound for t
- Writing t
- Sounds for u and v
- Writing for u and v
- Sounds for w and x
- Writing for w and x
- Sounds for y and z
- Writing for y and z
- Short and long vowel sounds
- Writing A, B, and C
- Long and short vowel sounds
- Writing D, E, and F
- Short and long vowel sounds
- Writing G, H, and I

Unit 4

- Rhyming words
- Writing J, K, and L
- Writing M, N, and O
- Writing P, Q, and R
- Number of syllables in words
- Writing S, T, and U
- Number of syllables in names
- Writing V, W, and X
- Writing Y and Z
- Spell and read words
- Writing words

Unit 5

- Blending sounds in words
- Sounds of phonograms sh and th
- Sounds of phonograms ee and oo
- Sounds of phonograms ch and er
- Rhyming words
- Sounds of phonograms oy and oi
- Sounds of phonograms ow and ou
- Sounds of phonograms ay and ai
- Sounds of phonograms ck and or
- Sounds of phonograms ew and ir
- Sounds of phonograms ur and ar

Unit 6

- Saying sounds of phonograms ng and nk
- Writing phonograms ng and nk
- Saying sounds of phonograms aw and au
- Writing phonograms aw and au
- Saying sounds of phonograms wh and ph
- Writing phonograms wh and ph
- Saying sounds of phonograms oa and oe
- Writing phonograms oa and oe
- Saying sounds of phonograms ea and ed
- Writing phonograms ea and ed
- Saying sounds of phonograms ea and ed
- Writing phonograms ea and ed
- Saying sounds of phonograms igh and wr
- Writing phonograms igh and wr
- Saying sounds of phonograms dge and ie
- Writing phonograms dge and ie
- Saying sounds of phonograms dge and ie
- Writing phonograms dge and ie

Unit 7

- Vowel sounds: short or long
- Spell, read, write: at, it, is
- Spell, read, write: am, on, up, if
- Spell, read, write: and, in, as
- Spell, read, write: be, go, do
- Spell, read, write: my, so, no, by
- Spell, read, write: he, she, me
- Spell, read, write: top, put, cat
- Spell, read, write: red, six, hat, us
- Spell, read, write: run, ran, but

Unit 8

- Vowel sounds: short or long
- Spell, read, write: did, tan, can
- Spell, read, write: pet, ten, bag, beg
- Spell, read, write: big, bug, get
- Spell, read, write: the, to, of
- Spell, read, write: a, ate, help, him
- Spell, read, write: step, we, last
- R-controlled vowels: er, or, ar
- Spell, read, write: her, for, are
- Vowel team: ou
- Spell, read, write: out, you, sit, I
- Vowel teams: ee, oo
- Spell, read, write: see, good, was

Unit 9

- Vowel sounds
- Spell, read, write: man, boy, book
- Spell, read, write: dog, dump, say, play
- Spell, read, write: has, had, look
- Spell, read, write: hand, may, stick
- Spell, read, write: must, hid, sheep, stop
- Spell, read, write: this, short, long
- Vowel, consonant, silent e pattern
- Spell, read, write: make, home, take
- Vowel, consonant, silent final e pattern
- Spell, read, write: have, love, safe, like
- Spell, read, write: ride, trade, live

Unit 10

- Vowel sounds
- Spell, read, write: old, cold, find
- Spell, read, write: chin, milk, chips, land
- Vowel sounds and vowel teams
- Spell, read, write: talk, what, saw
- Floss rule words
- Spell, read, write: off, stuff, tell
- Spell, read, write: all, ball, hill, will
- Spell, read, write: pull, mess, miss
- Spell, read, write: ask, them, that
- Spell, read, write: gas, three, yes, food
- Spell, read, write: now, come, box

Kindergarten Phonics – 2nd Edition

Unit 1

- I will tell if words are the same or different.
- I will learn about the order of words.
- I will count words in sentences.
- I will learn about the order of words.
- I will learn how to blend syllables.
- I will learn the best way to sit.
- I will remove syllables from words.
- I will practice writing lines.
- I will learn to write circles.

Unit 2

- I will learn about the letter a.
- I will learn about the letter s.
- I will learn about the letters d and m.
- I will learn about the letter i.
- I will learn about the letters p and n.
- I will learn about the letters r and f.
- I will learn about the letter o.
- I will learn about the letters l and t.
- I will learn about the letters b and h.

Unit 3

- I will learn about the letter u.
- I will learn about the letters w and c.
- I will learn about the letter g.
- I will learn about the letter e.
- I will learn about the letters k and v.
- I will learn about the letter z and how the letters q and u work together.
- I will learn about the letters x and j.
- I will learn about the letter y.
- I will learn about the alphabet.

Unit 4

- I will learn about the uppercase letters for a, b, and c.
- I will learn about the uppercase letters for d, e, and f.
- I will learn about the uppercase letters for g, h, and i.
- I will learn about the uppercase letters for j, k, and l.
- I will learn about the uppercase letters for m, n, and o.
- I will learn about the uppercase letters for p, q, and r.

- I will learn about the uppercase letters for s, t, and u.
- I will learn about the uppercase letters for v, w, and x.
- I will learn about the uppercase letters for y and z.

Unit 5

- I will learn how the letters sh and th work together.
- I will learn how the letters ch and er work together.
- I will learn how the letters ee and oo work together.
- I will learn how the letters oy and oi work together.
- I will learn how the letters ow and ou work together.
- I will learn how the letters ay and ai work together.
- I will learn how the letters ck and ew work together.
- I will learn how the letters or and ir work together.
- I will learn how the letters ar and ur work together.

Unit 6

- I will learn how the letters ng and nk work together.
- I will learn how the letters aw and au work together.
- I will learn how the letters wh and ph work together.
- I will learn how the letters oe and oa work together.
- I will learn how the letters ea and ed work together.
- I will learn how the letters wor and ear work together.
- I will learn how the letters igh and ie work together.
- I will learn how the letters wr and ey work together.
- I will learn how the letters dge and tch work together.

Unit 7

- I will learn how to spell VC words.
- I will learn how to spell VC words.
- I will learn how to spell VC words.
- I will learn how to spell CV words.
- I will learn how to spell CV words.
- I will learn how to spell CV words.
- I will learn how to spell CVC words.
- I will learn how to spell CVC words.
- I will learn how to spell CVC words.

Unit 8

- *I will learn how to spell CVC words.*
- *I will learn how to spell CVC words.*
- *I will learn how to spell CVC words.*
- *I will learn how to spell words with two consonants side-by-side.*
- *I will learn how to spell words with two consonants side-by-side.*

- *I will learn how to spell words with two consonants side-by-side.*
- *I will learn how to spell words with tricky sounds.*
- *I will learn how to spell words with tricky letters.*
- *I will learn how to spell words with tricky letters.*

Unit 9

- *I will spell words with long vowels.*
- *I will spell CVC words.*
- *I will review spelling patterns.*
- *I will learn how to spell words with vowel team **ay**.*
- *I will learn how to spell words with vowel teams.*
- *I will learn how to spell words with vowel teams.*
- *I will learn how to spell words using the floss rule.*
- *I will learn how to spell words using the floss rule.*
- *I will learn how to spell words that end with **ck** and **tch**.*

Unit 10

- *I will spell words with r-controlled vowels.*
- *I will spell words with digraphs.*
- *I will spell words with digraphs.*
- *I will spell VCe words.*
- *I will spell VCe words.*
- *I will learn how to spell words that end with **ve**.*
- *I will spell words with short vowels.*
- *I will spell words with the letter **a**.*
- *I will spell words with vowel teams.*

1st Grade ELA – 2nd Edition

Unit 1

- Know how sentences look and sound.
- Understand the order of words on a page.
- Identify a text.
- Understand how words and pictures work together.
- Know the best way to listen to texts.
- Listen to a story and understand what the characters do and say.
- Understand setting.
- Listen to a story and understand the characters and setting.
- Understand setting.
- Listen to a story and understand the characters and setting.
- Know how to make predictions.
- Listen to a story and make predictions.
- Know how to make inferences.
- Listen to a story and make inferences.
- Put events in order.
- Tell the problem in a story.
- Make a prediction.
- Tell the resolution of a story.

Unit 2

- Know what poems are.
- Listen to poems and answer questions.
- Understand nouns.
- Trace and write nouns.
- Identify patterns in poems.
- Identify kinds of nouns.
- Understand verbs.
- Identify verbs in a poem.
- Listen to nursery rhymes.
- Identify rhyming words.
- Identify nouns and verbs.
- Understand rhythm.
- Understand adjectives.
- Read and write adjectives.
- Read and write adjectives.
- Understand how poets describe things.
- Make inferences to identify topics.
- Identify parts of speech.

Unit 3

- Know three kinds of sentences.
- Know how to punctuate three kinds of sentences.
- Review the parts of a story.
- Review kinds of sentences.
- Review parts of speech.
- Listen to a personal narrative and answer questions.
- Write sentences.
- Count sentences in a paragraph.
- Know what pronouns do.
- Listen to a story and understand the pronouns.
- Write your name.
- Identify proper nouns.
- Understand the order of a story.
- Identify proper nouns.
- Identify details in a story.
- Identify kinds of sentences.
- Understand the subject of a sentence.
- Understand the predicate of a sentence.

Unit 4

- Write the date.
- Capitalize words correctly.
- Know the parts of a book.
- Use question words correctly.
- Know what folktales are.
- Use adjectives correctly.
- Use prepositions correctly.
- Listen to a folktale and answer questions.
- Understand how to use context clues.
- Understand how to use a dictionary.
- Make a prediction.
- Listen to “Goldilocks and the Three Bears” and use context clues.
- Listen to the next part of “Goldilocks and the Three Bears” and answer questions.
- Put adjectives on a scale.
- Listen to “Goldilocks and the Three Bears” and answer questions.
- Put verbs on a scale.
- Understand the theme of “Goldilocks and the Three Bears.”
- Identify parts of speech.

Unit 5

- Use nouns in sentences.
- Identify singular and plural nouns.
- Listen to Chapter 1 of *Pinocchio* and answer questions.

- Identify singular and plural nouns.
- Understand the parts of a letter.
- Write a letter to Pinocchio.
- Listen to Chapter 2 of *Pinocchio*.
- Identify singular and plural pronouns.
- Listen to Chapter 3 of *Pinocchio*.
- Use adjectives correctly.
- Listen to Chapter 4 of *Pinocchio*.
- Use adjectives correctly.
- Listen to Chapter 5 of *Pinocchio*.
- Use adjectives correctly.
- Listen to Chapter 6 of *Pinocchio*.
- Use the correct nouns to complete sentences.
- Listen to the end of *Pinocchio*.
- Write a letter to Pinocchio.

Unit 6

- Use a dictionary.
- Identify synonyms and antonyms.
- Answer questions about “The Swan, the Pike, and the Crayfish.”
- Identify parts of speech.
- Answer questions about “The Lion and the Rabbit.”
- Identify subjects and predicates.
- Understand subject-verb agreement.
- Use present tense verbs correctly.
- Answer questions about “The Fox and the Stork.”
- Use verbs that agree with their subjects.
- Answer questions about “Belling the Cat.”
- Write sentences with subject-verb agreement.
- Understand what dramas are.
- Use verbs that agree with their subjects.
- Answer questions about “The Crow and the Pitcher.”
- Use verbs that agree with their subjects.
- Compare and contrast fables.
- Use verbs that agree with their subjects.

Unit 7

- Understand the parts of informational texts.
- Identify common and proper nouns.
- Identify a central idea.
- Identify singular and plural nouns.
- Understand organizational patterns.
- Identify parts of speech.
- Listen to “The Wright Brothers” and answer questions.
- Identify parts of speech.

- Identify past tense verbs.
- Use past tense verbs.
- Understand a how-to text.
- Use the correct verbs for subject-verb agreement.
- Use the correct verbs for subject-verb agreement.
- Understand the steps in a how-to text.
- Understand base words.
- Write sentences in the past tense.
- Listen to “Health Care Jobs” and answer questions.
- Write sentences with past tense verbs.

Unit 8

- Identify future tense verbs.
- Write sentences with future tense verbs.
- Understand opinions.
- Identify future tense verbs.
- Identify opinions and reasons.
- Use future tense verbs correctly.
- Know the parts of a persuasive text.
- Use pronouns correctly.
- Listen to a persuasive text and answer questions.
- Use pronouns correctly.
- Listen to a persuasive text and answer questions.
- Write sentences with pronouns.
- Use adverbs correctly.
- Write sentences with adverbs.
- Understand the parts of a persuasive text.
- Identify parts of speech.
- Listen to a persuasive text and identify its parts.
- Identify parts of speech.

Unit 9

- Understand possessive nouns.
- Write possessive nouns.
- Read “The Mooncake” and answer questions.
- Use possessive nouns.
- Review the parts of an informational text.
- Know the difference between plural and possessive nouns.
- Read “Our Solar System” and answer questions.
- Identify possessive adjectives.
- Review the kinds of words in poems.
- Identify possessive adjectives.
- Read “Make Moon Cookies!” and answer questions.
- Identify kinds of adjectives.
- Watch “Cool Clouds” and answer questions.

- Identify possessive pronouns.
- Listen to a poem and answer questions.
- Use possessive adjectives and pronouns correctly.
- Look at a picture dictionary and answer questions.
- Identify parts of speech.

Unit 10

- Understand author's purpose.
- Edit nouns.
- Listen to informational texts and answer questions.
- Edit verbs.
- Listen to a story and answer questions.
- Edit prepositions and adjectives.
- Make a prediction.
- Edit adverbs.
- Read poems and answer questions.
- Edit pronouns.
- Begin "Rapunzel."
- Edit punctuation marks.
- Listen to the next part of "Rapunzel."
- Edit subject-verb agreement.
- Read the next part of "Rapunzel."
- Edit capitalization.
- Read the end of "Rapunzel."
- Identify parts of speech.

1st Grade Reading and Composition

Unit 1

- Know that texts are messages with words.
- Know that words have patterns.
- Make predictions.
- Make inferences.
- Know that stories have a pattern.
- Know that informational texts have a pattern.
- Understand that persuasive texts have a pattern.
- Know that poems are a type of text.
- Know that books have a pattern.
- Know that digital texts are a type of text.

Unit 2

- Find patterns in poems.
- Find descriptions in poems.
- Find descriptions in a new poem.
- Find patterns in a new poem.
- Know poets can tell stories.
- Know nursery rhymes are short poems.
- Listen to more nursery rhymes.
- Know poems can have information.
- Know nursery rhymes can have information.
- Know poems that are acrostic.

Unit 3

- Review the parts of a story.
- Understand details.
- Make predictions.
- Make inferences.
- Understand folktales.
- Learn new words.
- Read the beginning of “Goldilocks and the Three Bears.”
- Find descriptions.
- Keep reading “Goldilocks and the Three Bears.”
- Understand why the characters do things.
- Understand antonyms.
- Understand synonyms.
- Read the end of “Goldilocks and the Three Bears.”
- Understand themes.

Unit 4

- Understand fairy tales.
- Get ready to read *Pinocchio*.
- Read the beginning of *Pinocchio*.
- Make a prediction.
- Read the beginning of *Pinocchio*.
- Make a prediction.
- Keep reading *Pinocchio*.
- Identify details.
- Draw part of the story.
- Put events in order.
- Predict the ending.
- Identify antonyms.
- Read the end of *Pinocchio*.
- Understand the theme.

Unit 5

- Understand fables.
- Read “The Swan, the Pike, and the Crayfish.”
- Read “The Fox and the Stork.”
- Understand the moral.
- Read “The Lion and the Rabbit.”
- Identify the moral.
- Read “The Elephant and the Pug.”
- Make a connection to the story.
- Make a prediction.
- Read “Belling the Cat.”
- Understand dramas.
- Read the drama of “Belling the Cat.”
- Read “The Crow and the Pitcher.”
- Identify synonyms.
- Read “The Wise Crow.”
- Make a story map.
- Compare and contrast “The Crow and the Pitcher” and “The Wise Crow.”
- Understand the moral.

Unit 6

- Review poem patterns with “The Wind.”
- Review informational text patterns with “Air.”
- Identify important details.
- Understand new vocabulary words.
- Read “Kites.”
- Find facts about kites.
- Understand organizational patterns.
- Identify how things are organized.

- Write questions before reading a text.
- Read “Kite Festivals.”
- Read the poem “Our Kites.”
- Read “The Wright Brothers.”
- Identify events in chronological order.
- Read the poem “The Kite Ted Made.”
- Compare and contrast “The Kite Ted Made” to “The Wright Brothers.”

Unit 7

- Listen to “Johnny’s Airport Adventure.”
- Answer questions about the story.
- Listen to “Bedtime.”
- Make a picture of a starry night.
- Listen to “The Sun.”
- Explain how three kinds of texts are different.
- Listen to “The Planets.”
- Identify the central idea and facts.
- Listen to “Make No-Bake Moon Cookies!”
- Understand the steps in a how-to text.
- Listen to “Days and Nights.”
- Make and use a KWL chart.
- Listen to “My Shadow.”
- Listen to “The Moon Cake.”
- Make inferences.
- Listen to “The ABCs of NASA.”
- Understand how to use a digital text.

Unit 8

- Understand idioms.
- Listen to “Penny’s Rainy Day.”
- Write about weather that makes you happy.
- Listen to “The Snowman.”
- Watch “Cool Clouds.”
- Make a KWL chart.
- Listen to “Go Camping!”
- Compare and contrast two texts.
- Listen to “Go Camping!”
- Compare and contrast two texts.
- Write about your hobbies.
- Listen to “How to Become a Bird-Watcher.”
- Write about your favorite month.
- Listen to two poems.
- Listen to “The Summer Is Coming.”

Unit 9

- Read “Wink! Wink!”
- Read “A Dress with Polka Dots.”
- Read poems with descriptions.
- Match descriptions with illustrations.
- Read “Wishing.”
- Write a list of rhyming words.
- Identify desert plants and animals.
- Read “Desert Reptiles.”
- Read about desert animals.
- Write about your favorite desert animal.
- Read about the parts of a cactus.
- Identify the central idea of a text.
- Know who the Grimm brothers are.
- Begin reading “Rapunzel.”
- Read “Rapunzel.”
- Explain how a different setting could change the story.
- Read the end of “Rapunzel.”
- Describe your favorite part of the story.

Unit 10

- Understand the purpose of quotation marks.
- Read “Three Little Mice.”
- Read “Piggy Wig.”
- Give advice to a character.
- Read “Tom and Betty at the Farm.”
- Play the Mother Goose game.
- Read nonsense words.
- Read “Patti Lou at the Zoo.”
- Read “How They Sleep.”
- Describe how you sleep.
- Read “Shells.”
- Answer questions about the poem.
- Identify central ideas and proof.
- Read about beavers.
- Identify reasons.
- Read “Safety First!”

1st Grade Grammar and Penmanship

Unit 1

- Know the names of the lines on the paper.
- Understand the best position for writing.
- Write the letters *d, g,* and *q*.
- Write the letters *s, f,* and *h*.
- Write the letters *k, l,* and *i*.
- Write the letters *e, j,* and *t*.
- Write the letters *b, p,* and *m*.
- Write the letters *n, r,* and *u*.
- Write the letters *y, v,* and *w*.
- Write the letters *x* and *z*.

Unit 2

- Write words with phonograms *sh, ee,* and *th*.
- Write words with phonograms *ow, ou,* and *ch*.
- Write words with phonograms *oo, ar,* and *or*.
- Write words with phonograms *ai, ay,* and *er*.
- Write words with phonograms *oi, oy,* and *ir*.
- Write words with phonograms *ear, wor,* and *ur*.
- Write words with phonograms *ew, ck,* and *tch*.
- Write words with phonograms *ew, ck,* and *tch*.
- Write words with phonograms *wh, aw,* and *au*.

Unit 3

- Understand why some words are capitalized.
- Understand how to write the letters A, T, and I.
- Write words with capital letters A, T, and I.
- Understand how to write the letters E, F, and H.
- Write words with capital letters E, F, and H.
- Understand how to write the letters C, G, and O.
- Write words with capital letters C, G, and O.
- Understand how to write the letters V, W, and Y.
- Write words with capital letters V, W, and Y.
- Understand how to write the letters J, Q, and X.
- Write words with capital letters J, Q, and X.
- Understand how to write the letters U, S, and Z.
- Write words with capital letters U, S, and Z.
- Understand how to write the letters K, L, M, and N.
- Write words with capital letters K, L, M, and N.
- Understand how to write the letters B, D, P, R.
- Write words with capital letters B, D, P, and R.

Unit 4

- Put words in alphabetical order.
- Identify nouns.
- Identify common and proper nouns.
- Identify singular and plural nouns.
- Identify pronouns.
- Use adjectives.
- Use adjectives to say how many nouns.
- Use adjectives to say which nouns.
- Use the words *a, an,* and *the* correctly.

Unit 5

- Identify verbs.
- Identify state-of-being verbs.
- Identify verb phrases.
- Identify present tense verbs.
- Identify past tense verbs.
- Identify future tense verbs.
- Identify subjects and predicates.
- Know how sentences begin and end.
- Use punctuation marks correctly.

Unit 6

- Use adjectives to say whose nouns.
- Identify adverbs
- Understand subject-verb agreement.
- Use action verbs that agree with subjects.
- Use state-of-being verbs that agree with subjects.
- Use past tense verbs that agree with subjects.
- Use verbs that agree with the pronouns *I* and *you*.
- Use verbs that agree with subjects.

Unit 7

- Review different types of nouns.
- Review different types of nouns.
- Write a sentence with a preposition.
- Review pronouns.
- Understand how to use indefinite pronouns.
- Write a sentence with an indefinite pronoun.
- Use the correct pronouns in subjects.
- Use the correct pronouns after prepositions.
- Write a sentence with a pronoun.

Unit 8

- Identify and use common and proper nouns.
- Identify possessive nouns.
- Write a sentence with a possessive noun.
- Understand what possessive pronouns are.
- Write a sentence with a possessive pronoun.
- Understand what the parts of a word are.
- Understand what suffixes tell us about nouns.
- Understand what suffixes tell us about verbs.

Unit 9

- Review parts of speech.
- Identify a conjunction as a part of speech.
- Write a sentence with a conjunction.
- Write a sentence with a list.
- Write a date.
- Review sentences.
- Understand what a compound sentence is.
- Write a compound sentence.

Unit 10

- Identify the parts of a letter.
- Edit the nouns in a letter.
- Edit verbs in a letter.
- Edit adverbs in a letter.
- Edit adjectives and prepositions in a letter.
- Edit incomplete sentences in a letter.

1st Grade Spelling and Phonics

Unit 1

- Listen for the beginning sounds in words.
- Write and say the sounds for letters c, o, and a.
- Write and say the sounds for letters d, g, and qu.
- Write and say the sounds for s, f, and h.
- Break down words into sounds.
- Write and say the sounds for letters k, l, and i.
- Write and say the sounds for letters e, j, and
- Write and say the sounds for letters b, p, and m.
- Identify words that rhyme.
- Write and say the sounds for letters n, r, and u.
- Write and say the sounds for letters y, v, and w.
- Write and say the sounds for letters x and z.

Unit 2

- Identify the number of syllables in a word.
- Write and say the sounds for phonograms sh, ee, and th.
- Blend syllables to form words.
- Write and say the sounds for phonograms ow, ou, and ch.
- Write and say the sounds for phonograms oo, ar, and or.
- Write and say the sounds for phonograms ay, ai, and er.
- Remove syllables in words.
- Write and say the sounds for phonograms oy, oi, and ir.
- Count the syllables in a word.
- Write and say the sounds for phonograms ear, wor, and ur.
- Identify long and short vowel sounds in words.
- Write and say the sounds for phonograms ew, ck, and tch.
- Write and say the sounds for phonograms ng, nk, and ph.
- Write and say the sounds for phonograms wh, aw, and au.

Unit 3

- Break down words into sounds.
- Write and say the sounds for phonograms ui, oa, and oe.
- Write and say the sounds for phonograms ough, ey, and igh.
- Change sounds in words.
- Write and say the sounds for phonograms kn, gn, and wr.
- Write and say the sounds for phonograms ei, eigh, and ie.
- Add sounds to words.
- Write and say the sounds for phonograms ti, ci, si, and dge.
- Write and say the sounds for phonograms ue, ea, and ed.
- Identify the different jobs of silent final e.

- Identify closed and open syllables.
- Identify vowel-consonant-e syllables.
- Identify vowel team syllables.
- Identify r-controlled vowel syllables.

Unit 4

- Tell if a syllable is closed.
- Spell and read words from List 1: sat, bed, and hit.
- Spell and read words from List 1: fox, man, cup, let.
- Spell and read words from List 1: dig, job, with.
- Tell if a syllable is open.
- Spell and read words from List 2: a, I, so.
- Spell and read words from List 2: she, the, we, go.
- Spell and read words from List 2: no, my, and by.
- Know words with vowel-consonant-e (VCe) syllables.
- Spell and read words from List 3: made, name, and like.
- Spell and read words from List 3: time, home, rode, and use.
- Spell and read words from List 3: rule, stone, and bike.

Unit 5

- Use phonogram ck in words.
- Spell and read words from List 4: black, snack, and rock.
- Spell and read words from List 4: cluck, clock, truck, and brick.
- Spell and read words from List 4: sick, neck, and wreck.
- Use phonogram sh in words.
- Spell and read words from List 5: shop, shut, and shape.
- Spell and read words from List 5: dish, shed, fish, and shine.
- Spell and read words from List 5: trash, ship, and shake.
- Use phonogram y as a vowel in words.
- Spell and read words from List 6: fly, cry, and try.
- Spell and read words from List 6: any, why, lady, and sky.
- Spell and read words from List 6: fifty, windy, and candy.

Unit 6

- Tell if a syllable is an r-controlled vowel syllable.
- Spell and read words from List 7: for, horn, and born.
- Spell and read words from List 7: are, part, art, and car.
- Spell and read words from List 7: walk, from, and some.
- Spell and read words from List 8: her, were, and dirt.
- Spell and read words from List 8: bird, girl, stir, and burn.
- Spell and read words from List 8: church, hurt, and again.
- Make words plural by adding ending s.
- Spell and read words from List 9: trick, tricks, and arms.
- Spell and read words from List 9: rake, rakes, sock, and socks.

- Spell and read words from List 9: mugs, said, and soon

Unit 7

- Make words plural by adding es.
- Spell and read words from List 10: fix, fixes, and white.
- Spell and read words from List 10: bus, buses, wish, and wishes.
- Spell and read words from List 10: lunch, lunches, and four.
- Make words past tense by adding ed.
- Spell and read words from List 11: plan, planned, and just.
- Spell and read words from List 11: lift, lifted, fold, and folded.
- Spell and read words from List 11: jump, jumped, and two.
- Write words with consonant digraphs ng and nk.
- Spell and read words from List 12: bring, trunk, and pink.
- Spell and read words from List 12: bank, string, think, and spring.
- Spell and read words from List 12: going, drank, and thank.

Unit 8

- Use phonogram ay in words.
- Spell and read words from List 13: tray, say, and day.
- Use phonograms ay and ai in words.
- Spell and read words from List 13: play, away, train, and rain.
- Use phonogram ai in words.
- Spell and read words from List 13: mail, snail, and afraid.
- Use phonogram ea in words.
- Spell and read words from List 14: eat, sea, and each.
- Use phonograms ea and ee in words.
- Spell and read words from List 14: leave, please, keep, and freedom.
- Use phonogram ee and ie in words.
- Spell and read words from List 14: sweep, believe, and field.
- Use phonogram igh and ie in words.
- Spell and read words from List 15: sight, lie, and die.
- Use phonogram igh in words.
- Spell and read words from 15: high, might, right, and bright.
- Spell and read words from List 15: light, both, and too.

Unit 9

- Use vowel team oa in words.
- Spell and read words from List 16: boat, road, and coat.
- Use phonograms oa and ow in words.
- Spell and read words from List 16: toad, blow, pillow, and know.
- Use phonograms oa and ow in words.
- Spell and read words from List 16: toad, blow, pillow, and know.
- Use phonograms oa and ow in words.
- Spell and read words from List 16: toad, blow, pillow, and know.

- Use phonograms ow and ou in words.
- Spell and read words from List 17: how, found, round, and count.
- Use phonograms ow and ou in words.
- Spell and read words from List 17: how, found, round, and count.
- Use phonogram ou in words.
- Spell and read words from List 18: could, would, and should.
- Use phonogram oo in words.
- Spell and read words from List 18: cook, took, good, and foot.
- Spell and read words from List 18: moon, broom, and upon.

Unit 10

- Use phonogram oy in words.
- Spell and read words from List 19: boy, toy, and enjoy.
- Use phonogram oi in words.
- Spell and read words from List 19: oil, soil, boil, and coin.
- Spell and read words from List 19: point, voice, and not.
- Use phonogram dge in words.
- Spell and read words from List 20: judge, bridge, and edge.
- Use phonograms dge and tch in words.
- Spell and read words from List 20: dodge, pitch, match, and catch.
- se phonogram tch in words.
- Spell and read words from List 20: fetch, hatch, and funny.
- Divide compound words.
- Spell and read words from List 21: backpack, outside, and goodbye.
- Spell and read words from List 21: football, bedroom, sidewalk, and airplane.
- Spell and read words from List 21: into, flagpole, and homework.

1st Grade Phonics – 2nd Edition

Unit 1

- Understand how consonant and vowel sounds are different.
- Practice writing lines.
- Write and say the sounds for the letter a.
- Identify the short and long sounds of a.
- Write and say the sounds for letters s, d, and m.
- Read closed syllables.
- Write and say the sounds for letters i, p, n, and r.
- Read words that begin with s.
- Write and say the sounds for letters f, o, l, and t.
- Read words with double consonants.
- Write and say the sounds for letters b, h, u, and w.
- Read words with the third sounds of a and u.
- Write and say the sounds for letters c, g, and e.
- Read words with the first sounds of c and g.
- Write and say the sounds for letters k, v, z, and qu.
- Read words with k, v, and z.
- Write and say the sounds for letters x, j, and y.
- Read words with x, j, and y.

Unit 2

- Listen to the ABC song.
- Read words with suffix s.
- Write the uppercase letters for a, b, and c.
- Read sentences.
- Write the uppercase letters for d, e, f, and g.
- Read open syllables. c
- Write the uppercase letters for d, e, f, and g.
- Read open syllables.
- Write the uppercase letters for k, l, m, and n.
- Read tricky everyday words.
- Write the uppercase letters for o, p, and q.
- Read words that end with the letter y.
- Write the uppercase letters for r, s, and t.
- Read VCe syllables.
- Write the uppercase letters for u, v, and w.
- Read words with the second sound of c.
- Write the uppercase letters for x, y, and z.
- Read words with the second sound of g.

Unit 3

- Write and say the sounds for digraphs **sh**, **ch**, and **th**.
- Read questions and exclamations.
- Write and say the sounds for multi-letter phonograms er and ee.
- Read vowel team and r-controlled syllables.
- Write and say the sounds for vowel teams oo, oy, and oi.
- Read words with vowel teams.
- Write and say the sounds for vowel teams ow and ou.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ay, ai, and ck.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ew, or, and ir.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ar and ur.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ng and nk.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms aw, au, and wh.
- Divide and read two-syllable words.

Unit 4

- Write and say the sounds for multi-letter phonograms ph, oe, and oa.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ea, ed, and wor.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms ear, igh, and ie.
- Divide and read two-syllable words.
- Write and say the sounds for multi-letter phonograms wr and ey.
- Read two-syllable words.
- Write and say the sounds for multi-letter phonograms dge and tch.
- Read two-syllable words.
- Write and say the sounds for multi-letter phonograms ui, ue, and ei.
- Read words with prefixes.
- Write and say the sounds for multi-letter phonograms kn and gn.
- Read words with prefixes.
- Write and say the sounds for multi-letter phonograms ough and eigh.
- Read words with prefixes.
- Write and say the sounds for multi-letter phonograms ti, ci, and si.
- Read words with final stable syllables.

Unit 5

- Sort CVC words by vowel sounds.
- Spell and read words from List 1.
- Read contractions.
- Spell and read words from List 1.
- Divide and read two-syllable words.
- Spell and read words from List 1.
- Divide and read two-syllable words.
- Spell and read words from List 2.
- Add missing consonant sounds.
- Spell and read words from List 2.
- Use the floss rule to spell words.
- Spell and read words from List 2.
- Use the ending ck rule to spell words.
- Spell and read words from List 3.
- Divide and read compound words.
- Spell and read words from List 3.
- Divide and read compound words.
- Spell and read words from List 3.

Unit 6

- Identify open and closed syllables.
- Spell and read words from List 4.
- Read contractions with long vowel sounds.
- Spell and read words from List 4.
- Read tricky contractions.
- Spell and read words from List 4.
- Read and sort words that end with vowel y.
- Spell and read words from List 5.
- Divide and read two-syllable words.
- Spell and read words from List 5.
- Read sentences with the fourth sound of y.
- Spell and read words from List 5.
- Identify open, closed, and VCe syllables.
- Spell and read words from List 6.
- Divide and read two-syllable words that end with a VCe syllable.
- Spell and read words from List 6.
- Divide and read two-syllable words.
  Spell and read words from List 6.

Unit 7

- Read and sort words with r-controlled vowels.
- Spell and read words from List 7.
- Divide and read words with r-controlled vowels.
- Spell and read words from List 7.
- Divide and read two-syllable words.
- Divide and read two-syllable words with vowel teams.
- Spell and read words from List 8.
- Divide and read words with the VV division pattern.
- Spell and read words from List 8.
- Divide and read words with the VCV and VV patterns.
- Spell and read words from List 8.
- Read tricky words with vowel teams ou and ai.
- Spell and read words from List 9.
- Read words with silent letters.
- Spell and read words from List 9.
- Read words with the long i and o sounds before two consonants.
  Spell and read words from List 9.

Unit 8

- Read compound words with vowel team igh.
- Spell and read words from List 10.
- Read words with vowel team oo.
- Spell and read words from List 10.
- Read words with vowel team ea.
- Spell and read words from List 10.
- Divide and read words with long a sounds.
- Spell and read words from List 11.
- Read words with suffix ing.
- Spell and read words from List 11.
- Read and sort words with vowel team ie.
- Spell and read words from List 11.
- Read words with vowel team ee.
- Spell and read words from List 12.
- Read words with vowel team ou.
- Spell and read words from List 12.
- Make compound words with vowel team oa.
- Spell and read words from List 12.

Unit 9

- Read words that end with se.
- Spell and read words from List 13.
- Write sentences using words with a silent final e.
- Spell and read words from List 13.
- Read and sort words by their ending letters.
- Spell and read words from List 13.
- Determine how to spell the final j sound.
- Spell and read words from List 14.
- Determine how to spell the final ch sound.
- Spell and read words from List 14.
- Determine how to spell the final k sound.
- Spell and read words from List 14.
- Identify words with suffix s.
- Spell and read words from List 15.
- Determine when to use suffix s and es.
- Spell and read words from List 15.
- Add suffixes ing and ed to base words.
- Spell and read words from List 15.

Unit 10

- Identify different syllable types.
- Spell and read words from List 16.
- Divide two-syllable words.
- Spell and read words from List 16.
- Read sentences with digraph sh.
- Spell and read words from List 16.
- Write compound words.
- Spell and read words from List 17.
- Identify compound words.
- Spell and read words from List 17.
- Identify base words.
- Spell and read words from List 17.
- Count syllables in written words.
- Spell and read words from List 18.
- Read sentences with vowel teams oo and ow.
- Spell and read words from List 18.
- Divide and read two-syllable words.
  Spell and read words from List 18.

2nd Grade ELA – 2nd Edition

Unit 1

- Understand how pictures and words work together.
- Answer questions about a text.
- Review the parts of a story.
- Answer questions about “That’s How.”
- Understand nouns as a part of speech.
- Identify nouns in sentences.
- Identify quotation marks.
- Answer questions about “What the Tiny Raindrop Did.”
- Identify proper and common nouns.
- Edit for mistakes with proper and common nouns.
- Identify the conflict and resolution in a story.
- Identify the characters and setting in a story.
- Understand how to retell a story.
- Use a story map to retell “The Great Acorn Hunt.”
- Identify singular and plural nouns.
- Add the correct suffix to make plural nouns.
- Understand how to write a theme.
- Find proof to support a theme.

Unit 2

- Identify singular and plural pronouns.
- Edit for nouns and pronouns.
- Understand what makes a story a folktale.
- Understand three different kinds of folktales.
- Understand new words.
- Answer questions about “The Little Red Hen.”
- Identify verbs.
- Answer questions about “The Hungry Jackal and the Hungry Alligator.”
- Answer questions about “The Elephant and the Pug.”
- Understand the difference between literal and figurative language.
- Use context clues to understand idioms.
- Answer questions about two of Aesop’s fables.
- Identify to-be verbs and verb phrases as verbs.
- Answer questions about “Jorinda and Jorindel.”
- Identify the meaning of homographs.
- Answer questions about the beginning of “Cinderella.”
- Make a prediction about “Cinderella.”
- Answer questions about the end of “Cinderella.”

Unit 3

- Identify adjectives.
- Identify the nouns that adjectives describe.
- Understand the parts of a drama.
- Answer questions about “The Timid Hare.”
- Answer questions about “Chicken Licken.”
- Compare and contrast “The Timid Hare” and “Chicken Licken.”
- Learn new words.
- Answer questions about the beginning of “Rumpelstiltskin.”
- Use synonyms and antonyms as context clues.
- Answer questions about the end of “Rumpelstiltskin.”
- Use adjectives with the suffixes er and est correctly.
- Answer questions about “The Three Billy Goats Gruff.”
- Listen to the beginning of “Whuppity Stoorie.”
- Compare and contrast “Whuppity Stoorie” and “Rumpelstiltskin.”
- Identify figurative and descriptive language.
- Listen to the end of “Whuppity Stoorie.”
- Choose the correct determiner before consonant and vowel sounds.
- Choose the correct determiner for singular and plural nouns.

Unit 4

- Understand the purpose of informational texts.
- Answer questions about an informational text.
- Identify subjects and predicates.
- Write complete sentences.
- Use text features to understand information.
- Answer questions about an informational text.
- Ask questions about a news article.
- Use text features to find information.
- Understand the parts of a how-to text.
- Answer questions about “How to Make Space Slime.”
- Understand when present-tense verbs happen.
- Use present-tense verbs that agree with singular and plural subjects.
- Identify central ideas.
- Answer questions about “What Is a Coconut?”
- Understand when past- and future-tense verbs happen.
- Use past- and future-tense verbs that agree with singular and plural subjects.
- Infer the central idea of an informational text.
- Answer questions about “America’s National Parks.”

Unit 5

- Understand the difference between fiction and nonfiction.
- Answer questions about “The Oceans of Our Plant.”
- Identify prepositions.
- Answer questions about “Busy Beavers.”
- Understand what a personal narrative is.
- Answer questions about two personal narratives.
- Identify prepositional phrases.
- Answer questions about poems.
- Answer questions about Hans Christian Andersen’s biography.
- Learn vocabulary words from The Little Mermaid.
- Identify descriptive and figurative language in The Little Mermaid.
- Answer questions about Chapters 1 and 2 of The Little Mermaid.
- Identify the point of view in The Little Mermaid.
- Answer questions about Chapters 3 and 4 of The Little Mermaid.
- Identify the meanings of idioms.
- Answer questions about Chapters 5 and 6 of The Little Mermaid.
- Answer questions about Chapters 7 and 8 of The Little Mermaid.
- Put the events from The Little Mermaid in order.

Unit 6

- Identify subjects and predicates.
- Identify direct objects.
- Make predictions about “Momotarō.”
- Answer questions about “Momotarō.”
- Use base words to understand compound words.
- Answer questions about “Lewis and Clark’s Furry Friend.”
- Use the correct pronouns in the subject of a sentence.
- Use the correct pronouns as an object in a sentence.
- Listen to Chapter 1 of Cave Explorers.
- Answer questions about Chapter 1 of Cave Explorers.
- Compare Cave Explorers and an informational text.
- Answer questions about Chapter 2 of Cave Explorers.
- Write synonyms and antonyms.
- Answer questions about Chapter 3 of Cave Explorers.
- Recall information about caves.
- Answer questions about Chapter 4 of Cave Explorers.
- Answer questions about Chapter 5 of Cave Explorers.
- Write about a favorite part of the story.

Unit 7

- Identify adverbs in sentences.
- Use adverbs correctly.
- Understand the steps for doing research.
- Begin planning for a research project.
- Practice following the steps for research.
- Answer questions about “Sandra Day O’Connor: First Woman on the Supreme Court.”
- Answer questions about “Who Was George Washington?”
- Organize notes about George Washington.
- Understand how to read the parts of a letter.
- Understand how to write the parts of a letter.
- Understand primary sources.
- Answer questions about primary sources from Theodore Roosevelt.
- Understand secondary sources.
- Answer questions about secondary sources about Theodore Roosevelt.
- Identify conjunctions.
- Use conjunctions correctly.
- Answer questions about a secondary source.
  Answer questions about a primary source.

Unit 8

- Use irregular nouns and verbs correctly.
- Write a story with irregular plural nouns.
- Identify the conflict and resolution in a drama.
- Answer questions about “The Rabbit’s Message.”
- Understand how rhythm works in a poem.
- Answer questions about two poems.
- Use irregular past-tense verbs correctly.
- Write a story with past-tense verbs.
- Answer questions about different informational texts.
- Understand the purpose of different organizational patterns.
- Answer questions about “The History of Earth Day.”
- Identify an organizational pattern.
- Answer questions about “Understanding Volcanoes.”
- Identify an organizational pattern.
- Answer questions about “Tornado Safety.”
- Identify an organizational pattern.
- Answer questions about “Why the Earth Quakes.”
- Identify an organizational pattern.

Unit 9

- Answer questions about an informational text.
- Answer questions about a poem.
- Identify possessive nouns.
- Use possessive nouns correctly.
- Identify the meaning of homographs.
- Answer questions about “The Story of Luck and Pluck.”
- Identify the parts of a persuasive text.
- Answer questions about a persuasive letter.
- Identify possessive pronouns.
- Use possessive pronouns correctly.
- Know the difference between facts and opinions.
- Identify facts and opinions.
- Understand the differences between asking and telling.
- Identify sentences that ask and tell.
- Identify possessive adjectives.
- Use possessive adjectives correctly.
- Write an opinion.
- Answer questions about “The Judgment of the Flowers.”

Unit 10

- Identify compound subjects.
- Write compound subjects correctly.
- Use text features to understand an informational text.
- Answer questions about an informational text.
- Identify parts of a fairy tale.
- Answer questions about “The Frog Prince.”
- Identify compound predicates.
- Write compound predicates correctly.
- Identify compound predicates.
- Write compound predicates correctly.
- Answer questions about two versions of “The Shepherd Boy and the Wolf.”
- Compare and contrast two versions of “The Shepherd Boy and the Wolf.”
- Identify compound sentences.
- Write compound sentences correctly.
- Identify primary and secondary sources.
- Answer questions about a primary source and a secondary source.
- Identify parts of a persuasive text.
- Answer questions about “Live and Let Live.”

2nd Grade Reading and Composition

Unit 1

- Understand that poems have patterns.
- Prepare to read “I Would Like You for a Friend.”
- Discuss the different points of view in “I Would Like You for a Friend.”
- Discuss the patterns in “I Would Like You for a Friend.”
- Review the parts of a story.
- Prepare to read “The Lion and the Mouse.”
- Understand the parts of a fable.
- Understand themes and morals.
- Understand what informational texts do.
- Use reading strategies to read an informational text.
- Understand figurative language.

Unit 2

- Understand how compound words are formed.
- Prepare to read “The Fountain.”
- Understand antonyms.
- Discuss the settings and patterns in “The Fountain.”
- Understand different ways to use language.
- Understand the difference between internal and external traits.
- Prepare to read “The Kids and the Frog.”
- Understand how dialogue is used.
- Identify traits of characters in “The Kids and the Frog.
- Put the events from a story in order.
- Understand how to paraphrase a story.
- Understand central ideas.
- Understand supporting evidence.
- Prepare to read “Being Happy.”
- Identify the parts of an informational text.
- Understand how to use idioms.

Unit 3

- Identify synonyms and antonyms.
- Prepare to read “Tawny the Tiger.”
- Use context clues to understand new words.
- Use a story map to review “Tawny the Tiger.”
- Understand the difference between stories told in the first and third person.
- Understand the parts of a fairy tale.
- Prepare to read “Cinderella.”
- Understand the order of events in stories.
- Use a story map to review “Cinderella.”

- Talk about the way the characters react to events.
- Understand the parts of a word.
- Prepare to read “Kindness May Keep You Healthy.”
- Review the parts of an informational text.
- Understand different organizational patterns.

Unit 4

- Understand folktales.
- Prepare to read “Momotarō.”
- Understand folktales.
- Prepare to read “Momotarō.”
- Use a story map to retell “Momotarō.”
- Know how to use SWBST to retell stories.
- Learn new vocabulary words.
- Read and retell “The Lark and Her Young Ones.”
- Read and retell “The Little Red Hen.”
- Compare and contrast “The Lark and Her Young Ones” and “The Little Red Hen.”
- Understand persuasive texts.
- Identify reasons.
- Understand the differences between facts and opinions.
- Write an opinion paragraph.
- Read “MLK Day of Service.”
- Practice understanding idioms.

Unit 5

- Identify the meaning of compound words.
- Read “The Gingerbread Boy.”
- Retell the first version of “The Gingerbread Boy.”
- Read the second version of “The Gingerbread Boy.”
- Use SWBST to retell “The Gingerbread Boy.”
- Compare and contrast the two versions of “The Gingerbread Boy.”
- Understand drama as a type of text.
- Read “The Timid Hare.”
- Understand and look for repetition.
- Understand and listen for rhythm.
- Understand stage directions.
- Read “The Shepherd Boy Who Cried Wolf.”
- Read “The Life of Theodore Roosevelt.”
- Use context clues to understand homographs.
- Read “Teddy Roosevelt.”
- Identify central ideas and supporting evidence.
- Read “Roosevelt’s Pets.”

Unit 6

- Review reading strategies.
- Practice using text evidence.
- Practice using a dictionary.
- Read “What Is Marine Biology?”
- Understand an author’s purpose.
- Identify an author’s purpose.
- Understand new vocabulary words.
- Know the author of “The Little Mermaid.”
- Review descriptive and figurative language.
- Read Chapter 1 of “The Little Mermaid.”
- Identify the point of view of “The Little Mermaid.”
- Read Chapters 2 and 3 of “The Little Mermaid.”
- Read Chapters 4 and 5 of “The Little Mermaid.”
- Use text evidence to prove answers.
- Read Chapters 6 and 7 of “The Little Mermaid.”
- Predict the end of the story.
- Read Chapter 8 of “The Little Mermaid.”
- Retell “The Little Mermaid” using SWBST.

Unit 7

- Learn new vocabulary words.
- Read “Falling Snow.”
- Identify alliteration.
- Complete lines of alliteration.
- Learn new vocabulary words.
- Read “The Storm.”
- Read “Time and the Seasons.”
- Understand the differences between formal and informal words.
- Learn new vocabulary words.
- Read “The Rabbit’s Message.”
- Ask research questions.
- Read informational texts about robins.
- Understand the prefix *pre*.
- Make a KWL chart.
- Read about floods and tornadoes.
- Add facts to a KWL chart.
- Read about earthquakes and hurricanes.

Unit 8

- Read “A Four-Leaf Clover.”
- Look at the action words used in the poem.
- Read “Trees.”
- Identify repeating sounds.
- Read "Trouble in the Greenhouse.”
- Identify rhyme, rhythm, alliteration, and descriptions.

- Understand the differences between asking and telling.
- Know how to ask for help.
- Read "The Judgment of the Flowers."
- Answer questions about the story.
- Read "The Story of the Morning Glory Seed."
- Answer questions about the story.
- Look at words with the root word *arbor*.
- Read "What Is Arbor Day?"
- Understand the purpose of persuasive texts.
- Read "Celebrate Arbor Day!"
- Compare and contrast two pictures.
- Compare and contrast two texts.

Unit 9

- Learn new vocabulary words.
- Read "The Power of Pets."
- Read "Endangered Species."
- Brainstorm animals to research.
- Read "Live and Let Live."
- Answer questions about the text.
- Make predictions about *Cave Explorers*.
- Read Chapter 1.
- Read information about bats.
- Read Chapter 2.
- Write an opinion about cave exploring.
- Read Chapter 3.
- Learn new vocabulary words.
- Read Chapter 4.
- Read Chapter 5.
- Write a story about a cave painting.
- Finish reading *Cave Explorers*.
- Put events from the story in order.

Unit 10

- Read a biography of Louisa May Alcott.
- Read parts of Theodore Roosevelt's autobiography.
- Read diary entries and a letter.
- Write a letter.
- Read a personal narrative.
- Brainstorm ideas for a personal narrative.
- Understand how photographs can tell true stories.
- Look at photographs and answer questions about them.
- Understand the differences between primary and secondary sources.
- Identify primary and secondary sources.
- Read an informational text about schools.

- Read biographies of two men.
- Look at Lewis Hine’s photographs.
- Read part of Booker T. Washington’s autobiography.

2nd Grade Grammar and Penmanship

Unit 1

- Know the names of the lines on paper.
- Know the positions in between lines.
- Understand the best position for writing.
- Write letters together in words.
- Write lowercase letters r, n, m, p, and t.
- Write the letters v, w, x, y, and z.
- Write words with phonograms ee, ow, sh, and th.
- Write words with phonograms ar, ch, oo, and ou.
- Write words with phonograms ai, oi, ay, and oy.
- Write words with phonograms er, ir, ur, and ear.

Unit 2

- Put words in alphabetical order.
- Write words with phonograms *ng, nk, ea, aw,* and *au*.
- Identify why some words are capitalized.
- Write words with phonograms *or, ck, wh,* and *tch*.
- Write words with phonograms *ue, ew, ui,* and *oa*.
- Write your name and birthday using capital letters.
- Write the uppercase letters *K, L, M,* and *N*.
- Write words with phonograms *ph, ough, oe,* and *ey*.
- Write the uppercase letters *E, F, H, I,* and *T*.
- Write words with phonograms *igh, kn, gn,* and *wr*.
- Write the uppercase letters *C, G, O,* and *Q*.
- Write words with phonograms *ed, ci, ti,* and *si*.
- Write the uppercase letters *B, D, P,* and *R*.
- Write words with capital letters *B, D, P,* and *R*.
- Write the uppercase letters *J, U, S,* and *Z*.
- Write words with capital letters *J, U, S,* and *Z*.

Unit 3

- Write spelling words in alphabetical order.
- Understand nouns as a part of speech.
- Understand adjectives as a part of speech.
- Understand verbs as a part of speech.
- Understand pronouns as a part of speech.
- Understand articles as a part of speech.
- Understand adverbs as a part of speech.
- Understand prepositions as a part of speech.
- Understand conjunctions as a part of speech.
- Write spelling words in alphabetical order.

- Understand dictionaries.

Unit 4

- Write spelling words in alphabetical order.
- Review the parts of speech.
- Understand the parts of a sentence.
- Use punctuation marks correctly.
- Identify common and proper nouns.
- Identify singular and plural nouns.
- Change singular nouns into plural nouns by adding *s* or *es*.
- Identify singular and plural pronouns.
- Understand that some verbs are state-of-being verbs.
- Identify verb phrases.

Unit 5

- Write spelling words in alphabetical order.
- Identify subjects and predicates.
- Identify objects.
- Use subject and object pronouns correctly.
- Identify present tense verbs.
- Identify past tense verbs.
- Identify future tense verbs.
- Use conjunctions correctly.
- Identify compound subjects.
- Identify compound predicates.

Unit 6

- Write spelling words in ABC order.
- Practice lines for cursive letters.
- Write the cursive letters *a, c,* and *o*.
- Write the cursive letters *d, g,* and *q*.
- Write the cursive letters *i, u, w,* and *r*.
- Write the cursive letters *j, p,* and *t*.
- Write the cursive letters *h, k,* and *l*.
- Write the cursive letters *m, n,* and *v*.
- Write the cursive letters *x, y, s,* and *z*.
- Write the cursive letters *e, b,* and *f*.

Unit 7

- Write spelling words in ABC order.
- Write the uppercase cursive letters *A, B,* and *C*.
- Write the uppercase cursive letters *D, E,* and *F*.
- Write the uppercase cursive letters *G, H,* and *I*.

- Write the uppercase cursive letters *J, K,* and *L*.
- Write the uppercase cursive letters *M, N,* and *O*.
- Write the uppercase cursive letters *P, Q,* and *R*.
- Write the uppercase cursive letters *S, T,* and *U*.
- Write the uppercase cursive letters *V, W,* and *X*.
- Write the uppercase cursive letters *Y* and *Z*.

Unit 8

- Write spelling words in ABC order.
- Edit the end punctuation of sentences.
- Know how to write contractions correctly.
- Know how to write possessive nouns correctly.
- Know the parts of a letter.
- Know how to write the date correctly.
- Know how to write a greeting and closing for a letter.
- Know how to write an address.
- Know how to use commas in a list.
- Know how to make a compound sentence.

Unit 9

- Write spelling words in ABC order.
- Identify singular and plural nouns.
- Identify common and proper nouns.
- Use collective nouns correctly.
- Identify subject and object pronouns.
- Use possessive pronouns correctly.
- Identify reflexive pronouns correctly.
- Identify adjectives in sentences.
- Identify incorrect adjectives in sentences.
- Identify possessive adjectives correctly.

Unit 10

- Write abbreviations in ABC order.
- Identify subject-verb agreement mistakes.
- Write spelling words in ABC order.
- Identify incorrect verbs in sentences.
- Identify incorrect irregular verbs in sentences.
- Identify adverbs.
- Identify incorrect adverbs in sentences.
- Identify adjectives and adverbs.
- Identify incomplete sentences.
- Edit incomplete sentences.
- Identify incorrect punctuation marks.

2nd Grade Spelling and Phonics

Unit 1

- Identify letters as either vowels or consonants.
- Identify initial, medial, and final sounds in words.
- Write and say the sounds for phonograms c, o, a, d, and f.
- Identify the difference between long and short vowel sounds.
- Write and say the sounds for phonograms g, s, qu, b, and e
- Identify words that rhyme.
- Write and say the sounds for phonograms h, i, j, k, and l.
- Identify the number of syllables in words.
- Write and say the sounds for phonograms m, n, p, r, and t.
- Remove sounds from words.
- Write and say the sounds for phonograms sh, ee, th, and ow.
- Add and remove sounds in words.
- Write and say the sounds for phonograms ou, oo, ch, and ar.
- Change sounds in words to create new words.
- Write and say the sounds for phonograms ay, ai, oy, and oi.
- Produce words that rhyme.
- Write and say the sounds for phonograms er, ir, ur, ear, and wor.

Unit 2

- Break down words into syllables.
- Break down syllables into sounds.
- Write and say the sounds for phonograms ng, nk, ea, aw, and au.
- Identify long and short vowel sounds in words.
- Write and say the sounds for phonograms or, ck, wh, and tch.
- Change sounds in words to form new words.
- Write and say the sounds for phonograms ue, ew, ui, and oa.
- Identify changes in words.
- Write and say the sounds for phonograms ph, ough, oe, and ey.
- Substitute sounds in words to make new words.
- Write and say the sounds for phonograms igh, kn, gn, and wr.
- Write and say the sounds for phonograms ei, dge, ie, and eigh.
- Identify changes in sounds in words.
- Write and say the sounds for phonograms ci, ti, si, and ed.
- Identify the different jobs of silent final e.
- Name the six different types of syllables.
- Identify the six different types of syllables.

Unit 3

- Tell if syllables are open or closed.
- Spell and read words from List 1: she, inch, baby, silent, and napkin.
- Spell and read words from List 1: open, potato, silly, why, and magnet.

- Spell and read words from List 1: open, potato, silly, why, and magnet.
- Know words with vowel-consonant-e (VCe) syllables.
- Spell and read words from List 2: plate, erase, invite, smile, alike.
- Spell and read words from List 2: cone, theme, globe, complete, and cube.
- Spell and read words from List 2: gave, made, those, conflict, and volume.
- Know the final stable syllables (C-le).
- Spell and read words from List 3: table, bottle, grumble, kettle, and angle.
- Spell and read words from List 3: apple, puzzle, gentle, title, and uncle.
- Know the types of syllables.
- Spell and read words from List 3: tell, big, five, plot, and fact.

Unit 4

- Tell if syllables are r-controlled vowel syllables.
- Spell and read words from List 4: over, under, paper, after, and nerve.
- Spell and read words from List 4: circle, third, thirsty, swirl, and shirt.
- Spell and read words from List 4: first, came, us, remember, and meter.
- Spell and read words from List 4: first, came, us, remember, and meter.
- Tell the types of syllables in words.
- Spell and read words from List 5: pattern, pumpkin, kitchen, human, and basket.
- Spell and read words from List 5: which, very, use, effect, and context.
- Tell if words have vowel-team syllables.
- Spell and read words from List 6: always, Friday, trait, chain, and nail.
- Spell and read words from List 6: brain, contain, eight, neighbor, and sleigh.
- Spell and read words from List 6: these, give, such, matter, and combine.

Unit 5

- Tell the types of syllables in words.
- Spell and read words from List 7: night, right, tie, pie, and July.
- Spell and read words from List 7: dry, buy, sigh, pry, and rely.
- Spell and read words from List 7: want, off, call, tax, and fire.
- Spell and read words from List 7: want, off, call, tax, and fire.
- Spell and read words from List 8: soap, roads, loaf, coach, and slow.
- Spell and read words from List 8: know, grow, flow, hoe, toe.
- Spell and read words from List 8: does, new, sing, water, coast.
- Spell and read words from List 8: does, new, sing, water, coast.
- Spell and read words from List 9: meat, team, clean, beach, deal.
- Spell and read words from List 9: write, many, when, before, colony.

Unit 6

- Tell the type of syllable division pattern in words: VCCV.
- Spell and read words from List 10: dentist, plastic, absent, picnic, and contest.
- Spell and read words from List 10: happen, tennis, hiccup, sudden, and muffin.
- Tell the type of syllables in words.
- Spell and read words from List 10: wash, or, your, mayor, and until.

- Tell the type of syllable division pattern in words: VCV.
- Spell and read words from List 11: hotel, zero, crazy, moment, and chosen.
- Spell and read words from List 11: body, finish, radish, closet, and present.Write the cursive letters j, p, and t.
- Spell and read words from List 11: where, once, through, surface, and gallons.
- Spell and read words from List 11: where, once, through, surface, and gallons.
- Tell the type of syllable division pattern in words: VCCCV.
- Spell and read words from List 12: inspect, control, imprint, lipstick, and grandson.
- Tell the type of syllable division pattern in words: VCCCV.
- Spell and read words from List 12: inspect, control, imprint, lipstick, and grandson.

Unit 7

- Tell the types of syllables in words.
- Spell and read words from List 13: house, mow, town, shout, and frown.
- Spell and read words from List 13: mouse, found, around, brown, and flower.
- Spell and read words from List 13: about, would, work, orbit, and season.
- Spell and read words from List 14: running, standing, sleeping, hiding, and making.
- Spell and read words from List 14: asked, waited, closed, liked, and missed.
- Spell and read words from List 14: hopping, same, study, air, and filter.
- Spell and read words from List 14: hopping, same, study, air, and filter.
- Spell and read words from List 15: dishes, mittens, dresses, logs, and trees.
- Spell and read words from List 15: move, spell, pictures, world, and animals.

Unit 8

- Tell the types of syllables in words.
- Spell and read words from List 16: bigger, fastest, cooler, shorter, and smallest.
- Spell and read words from List 16: brightest, quicker, hottest, tallest, and slower.
- Spell and read words from List 16: end, done, another, weather, and nature.
- Spell and read words from List 17: yardstick, everyone, popcorn, classroom, and sunshine.
- Spell and read words from List 17: moonlight, playground, baseball, somebody, and yourself.
- Spell and read words from List 17: skateboard, notebook, grandmother, goldfish, and their.
- Tell the words that make up the contractions.
- Spell and read words from List 18: I'm, don't, isn't, can't, and we'll.
- Spell and read words from List 18: I've, doesn't, you're, that's, and wasn't.
- Spell and read words from List 18: you've, they're, shouldn't, it's, we're.

Unit 9

- Tell the types of syllables in words.

- Spell and read words from List 19: knew, grew, stew, blew, and school.
- Spell and read words from List 19: argue, value, overdue, clue, and mushrooms.
- Spell and read words from List 19: argue, value, overdue, clue, and mushrooms.
- Spell and read words from List 20: August, because, straw, yawn, and drawing.
- Spell and read words from List 20: noise, choice, moisture, cowboy, and enjoy.
- Spell and read words from List 20: better, even, goes, rhyme, and idea.
- Spell and read words from List 21: unhappy, unpack, unwrap, unsure, and unlock.
- Spell and read words from List 21: reuse, retell, rebuild, replace, and reread.
- Spell and read words from List 21: disobey, disappear, dishonest, dismiss, and dislike.

Unit 10

- Tell about the word for each abbreviation.
- Spell and read words from List 22: in., ft., yd., Mon., and Jan.
- Spell and read words from List 22: Mrs., Mr., hr., min., and a.m.
- Tell the types of syllables in words.
- Spell and read words from List 22: p.m., tsp., St., paragraph, and different.
- Tell the types of syllables in words.
- Spell and read words from List 22: p.m., tsp., St., paragraph, and different.
- Spell and read words from List 23: lamb, comb, half, should, and could.
- Spell and read words from List 23: simple, welcome, equal, measure, and compare.
- Spell and read words from List 24: addition, subtraction, fraction, directions, and friction.
- Spell and read words from List 24: vision, Asia, mansion, election, and vacation.
- Spell and read words from List 24: vision, Asia, mansion, election, and vacation.

3rd Grade ELA

Unit 1

- Define and identify nouns.
- Create a reading journal.
- Learn about base words and how to spell certain words.
- Divide words into syllables.
- Closely read a selection and begin an outside reading project.
- Apply accents.
- Learn about word origins.
- Recognize and use topic sentences.
- Understand the difference between common nouns and proper nouns.
- Learn capitalization rules and compare the genres.
- Analyze captions.
- Recognize key words.
- Know the difference between singular and plural nouns.
- Understand pronouns and form and recognize possessive pronouns.

Unit 2

- Read with expression and understand the writing process.
- Describe verbs and their forms.
- Understand noun-verb agreement and pre-writing.
- Write a rough draft and learn about verb tenses.
- Read with fluency and comprehension and know these terms.
- Use *–ing* endings with short vowel sound words.
- Use graphic organizers.
- Recognize subjects, predicates, and sentence types.
- Identify types of sentences: declarative, imperative, interrogative, and exclamatory.
- Learn to use graphic organizers for outlining.
- Write an outline for a rough draft.

Unit 3

- Read stories and think about what is happening.
- Pay attention to humor or things that cause amusement.
- Learn phonetic rules for long vowel and silent –e words.
- Write a first-person story and revise your story.
- Edit a draft.
- Understand the use of prefixes and use colorful verbs.
- Understand the use of adjectives and make your writing colorful.
- Prepare a final draft and learn about media types.
- Decide whether sentences are simple or compound.
- Use conjunctions in compound sentences.
- Understand noun-pronoun agreement.

- Learn about prefixes and suffixes and spell words correctly.

Unit 4

- Develop good listening skills and use contractions.
- Know how to outline a speech.
- Understand the articles: *a, an*, and *the*.
- Learn to spell words correctly.
- Learn rules for comma use.
- Use prefixes with adjectives and use adjectives in a story.
- Learn about essays and how to spell words correctly.
- Write an essay.
- Use suffixes to change nouns to adjectives and to change verbs to nouns.

Unit 5

- Learn about possessive nouns.
- Understand syllabication patterns in words with more than one syllable.
- Understand the fiction genre and the parts of a story.
- Recognize and understand the purpose of sequence words and phrases.
- Understand the elements of a fiction story, especially characters and setting.
- Know the rule concerning commas in dates.
- Practice editing for capitalization and punctuation.
- Describe reasons for paragraphing within a story.
- Understand the fiction elements of theme, point of view, and plot.
- Know more about contractions.
- Write a fiction story.

Unit 6

- Learn to use adverbs.
- Understand and appreciate poetry.
- Learn tools of the poet and listen to poetry readings.
- Learn about elements and forms of poetry.
- Understand antonyms and synonyms.
- Read and hear poems and review parts of speech.
- Write a free-verse poem.

Unit 7

- Identify prepositions, prepositional phrases, and objects of the preposition.
- Recognize and pronounce final stable syllables.
- Compare and contrast written stories and drama.
- Understand the features of drama and read drama aloud.
- Use homophones correctly.

- Read a drama script and understand traditional drama.
- Recognize final stable syllables *–tion* and *–ture*.
- Understand and use comparative and superlative adjectives.
- Translate a fiction story into drama.
- Compare and contrast myths, legends, fairy tales, and fables.
- Divide double consonant words into syllables.
- Review capitalization.
- Understand and use comparative and superlative adverbs.

Unit 8

- Define and understand how to make an inference.
- Practice identifying parts of speech.
- Recognize and spell words with r-controlled vowels.
- Recognize different types of non-fiction writing.
- Describe and understand literary non-fiction.
- Understand complex sentences and subordinating conjunctions.
- Recognize sensory language.
- Know and apply the rules of quotation marks and paragraphs in dialogue.
- Learn about cultural and historical literary non-fiction.
- Understand the importance and basic questions of research.
- Identify homographs and learn about cultural literature.
- Understand the elements of biography.
- Understand the difference in point of view between biography and autobiography.
- Write a letter to a friend and recognize simple words that are commonly used.

Unit 9

- Understand informational texts.
- Recognize digraphs and diphthongs.
- Understand the term expository writing and the different forms of expository writing.
- Understand expository writing using sequence.
- Learn about research.
- Recognize and pronounce consonant digraphs *ch, gh, th, sh, ph*, and *wh*.
- Understand and write problem-solution essays.
- Monitor decoding and meaning.
- Learn about cause-and-effect relationships.
- Recognize consonant combinations and learn about procedural texts.
- Understand the structure of a paragraph and write a procedural text.

Unit 10

- Read and analyze argumentative text.
- Recognize unusual vowel combinations.
- Understand research techniques.

- Research, organize, and write an argumentative essay.
- Understand the different types of media.
- Spell words having to do with media.
- Understand differences between writing for print and writing for electronic media.
- Write a PowerPoint® presentation.
- Present a PowerPoint®.
- View and discuss PowerPoint® presentations.

4th Grade ELA

Unit 1

- Describe the elements of different genres of fiction.
- Describe and identify the elements of a fictional story: character, setting, plot, point of view, and theme.
- Understand the parts of a plot diagram.
- Read with fluency and comprehension.
- Use Greek and Latin roots and affixes to determine word meanings.
- Read independently and respond in a reading journal.
- Write about a personal experience.
- Understand how to generate a research topic from personal interest or by brainstorming.
- Understand and know how to use singular and plural nouns.
- Understand and know how to use common and proper nouns.
- Understand and know how to use irregular verbs.
- Describe how characters develop in a text.
- Understand how characters interact with each other.
- Understand and know how to use regular and irregular plural nouns.
- Learn how to use a variety of sources in research.
- Summarize information in text and maintain meaning and logical order.
- Use context clues to determine the meanings of words with multiple meanings and unfamiliar words.
- Identify authors' use of similes and metaphors to produce imagery.
- Use a dictionary or glossary to find word meanings.
- Spell words with double consonants in the middle.

Unit 2

- Understand the differences and similarities in folktales: fable, fairy tale, legend, tall tale, and myth.
- Compare and contrast the adventures of characters (e.g., the trickster) in traditional and classical literature.
- Understand the elements of the writing process.
- Plan and develop a first draft.
- Summarize and explain the lesson or message of a work of fiction as its theme.
- Understand how to use adjectives correctly.
- Understand how to use adverbs correctly.
- Understand, make inferences, and draw conclusions about the structure and elements of drama and provide evidence from text to support your understanding.
- Describe the structural elements specific to dramatic literature.
- Understand how to use reflexive pronouns correctly.
- Spell words with silent letters correctly.
- Develop drafts by categorizing ideas and organizing them into paragraphs.
- Understand and use prepositions and prepositional phrases correctly.

- Understand and use coordinating and correlative conjunctions correctly.
- Understand and use time-ordered transition words and transitions that indicate a conclusion.
- Determine the meaning of words derived from Latin or Greek roots and affixes.
- Understand how to glean and use information in procedural text and documents by determining the sequence of activities needed to carry out a procedure.
- Explain factual information presented graphically.

Unit 3

- Use complete subjects and complete predicates properly in sentences.
- Use correct subject-verb agreement in sentences.
- Understand the difference between fragments, run-on sentences, and simple and compound sentences.
- Use knowledge of Latin and Greek root words to determine the meaning of unknown words.
- Identify and spell base words with affixes (*–ion*, *–ment*, *–ly*, *dis–*, *pre–*).
- Revise drafts for coherence, organization, use of simple and compound sentences, and audience.
- Identify the meanings of common idioms.
- Capitalize letters correctly.
- Spell commonly used homophones correctly.
- Write sentences using correct subject-verb agreement.
- Use context clues and dictionary skills to determine the meanings of unknown words.
- Read independently and answer comprehension questions.
- Write sentences using correct subject-verb agreement.
- Use quotation marks correctly.
- Identify the meanings of common idioms.
- Spell homophones correctly.
- Edit drafts for grammar, mechanics, and spelling.

Unit 4

- Understand and complete analogies using antonyms and synonyms.
- Spell words correctly using common spelling rules.
- Read and answer comprehension questions for In the Year of the Boar and Jackie Robinson.
- Understand the structure and elements of poetry.
- Use synonym and antonym context clues to determine the meanings of unknown words.
- Understand and use homophones correctly.
- Read and answer reading comprehension questions for a new book, Dear Austin, by Elvira Woodruff.
- Understand and analyze poetic language.
- Identify and create examples of sensory language.
- Determine the theme of poetry and identify themes in poetry.

- Read different forms of poems silently and aloud.
- Understand how the structural elements of poetry relate to form.
- Understand, make inferences, and draw conclusions about the structure and elements of poetry.
- Use Greek and Latin roots to determine the meanings of unfamiliar words.
- Understand poetic devices and the different forms of poetry.
- Identify similes in poetry.
- Compose a variety of poems using the elements of poetry.
- Use prepositions and prepositional phrases correctly.
- Compose a poem using prepositions and prepositional phrases.
- Compose a concrete poem (lyrical) and a limerick.

Unit 5

- Explain the roles and functions of characters in a story.
- Differentiate between a character's emotions and character traits.
- Understand how characters develop in a story.
- Understand relationships between characters in a story.
- Understand sequence and plot development in In the Year of the Boar and Jackie Robinson and Dear Austin.
- Identify the meaning of idioms.
- Use Greek and Latin roots to determine the meanings of unknown words.
- Write an IAM poem using a character from either In the Year of the Boar and Jackie Robinson or Dear Austin.
- Use comparative and superlative adjectives and adverbs correctly.
- Understand how to compare and contrast.
- Improve metaphors with adjectives.
- Make literary connections between two texts.
- Compare and contrast characters from two texts.
- Determine the point of view of a narrator.
- Write a compare and contrast five-paragraph essay.
- Write detailed sentences.
- Understand how setting contributes to the plot of a story.
- Revise your compare and contrast essay.
- Edit your work and the work of others.
- Spell homophones and words that end with –ure correctly.
- Complete analogies using synonyms and antonyms.
- Publish your writing.

Unit 6

- Understand structural patterns and features of literary nonfiction.
- Read an example of literary nonfiction and answer comprehension questions.
- Write an IAM poem about Sadako.
- Read procedures for how to make a paper crane.
- Make a paper crane using the written instructions.
- Read independently and write in a response journal.

- Read a historical fiction text about the bombing of Hiroshima.
- Write a literary response to the reading.
- Write a response to the literary text Hiroshima.
- Write with fluency.
- Compare and contrast the characters and events of Sadako and the Thousand Paper Cranes and Hiroshima.
- Use different strategies to compare and contrast the main characters in each book.
- Use different strategies to compare and contrast the events in each book.
- Understand the meaning of idioms.
- Use context clues to determine the meaning of idioms.
- Spell words that include the suffix –*ment* correctly.
- Write an imaginative story based on an idiom.

Unit 7

- Understand the purpose of informational text.
- Read a historical text and answer comprehension questions.
- Read informational text and answer comprehension questions.
- Spell grade-level words correctly.
- Write an imaginative story using five of this Section's spelling words.
- Determine an author's purpose for writing texts.
- Use Greek and Latin root words to determine the meanings of words.
- Determine an author's purpose for texts.
- Read independently and complete an entry in your Response Journal.
- Use context clues in informational text.
- Use context clues to determine meanings of words.
- Practice subject-verb agreement.
- Use the dictionary to find a variety of information.
- Use punctuation properly.
- Read independently and write in your Reading Journal.
- Recognize and use interjections.

Unit 8

- Identify and understand the features of expository texts.
- Read and identify the main idea and supporting details of expository texts.
- Read an expository text and identify text features.
- Read an expository text and find the main idea and supporting details.
- Learn the difference between a fact and an opinion.
- Read expository texts and distinguish between facts and opinions.
- Identify prepositions and prepositional phrases.
- Understand how to use prepositions and prepositional phrases.
- Spell words that contain the suffix –ion correctly.
- Read independently and respond in the Reading Journal.
- Identify and understand text structures of expository texts.
- Read expository texts that include different text structures.

- Identify the different organizational patterns of the text structures.
- Practice using homophones in a creative writing activity.
- Review how to use irregular verbs correctly.

Unit 9

- Understand the research process.
- Choose a research topic and generate a plan for gathering information.
- Record information about your sources.
- Understand what a bibliography is and how it should be organized.
- Paraphrase and summarize information from resources.
- Create an outline for a research report.
- Understand subjects and predicates in sentences.
- Read independently and respond in the Reading Journal.
- Understand how not to commit plagiarism.
- Write a draft of a research report.
- Revise a research report.
- Write a second draft.
- Spell words that begin with the prefix *dis-*.
- Read independently and respond in the Reading Journal.
- Edit your own writing.
- Prepare a final draft including a title page and bibliography.
- Submit the final draft of your research report.
- Use homophones correctly.
- Review parts of speech.
- Read independently and respond in the Reader Journal.

Unit 10

- Understand the elements of media literacy.
- Identify the different types of media.
- Identify what an author is trying to persuade a reader to think or do.
- Explain how an author uses language to influence what a reader thinks or does.
- Read a persuasive text and answer questions.
- Explain the positive and negative effects of advertisement techniques.
- Write a persuasive letter.
- Explain how to listen attentively to speakers.
- Explain how pacing, close-ups, and sound effects influence a message.
- Listen to a speech and respond to it.
- Ask a speaker relevant questions.
- Follow, restate, and give oral instructions that involve a series of related sequences of action.
- Spell words that begin with the prefix pre- correctly.
- Compare the various written conventions used for digital media.
- Understand how to participate in discussions.
- Use homophones correctly.
- Create a presentation using PowerPoint®.

- Understand the meanings of idioms.
- Present a PowerPoint®.
- Collect feedback on a presentation.
- Complete a self-assessment on a presentation.
- Use idioms in sentences correctly.
- Use homophones correctly.

5th Grade ELA

Unit 1

- Explain the difference between fiction and nonfiction texts.
- Read with fluency and comprehension.
- Establish a clear purpose for reading.
- Describe and identify the elements of a fiction text: character, setting, plot, and point of view.
- Summarize and paraphrase texts.
- Prepare a reading journal.
- Understand the purpose and sequence of the writing process.
- Follow the writing process steps of planning, drafting, revising, editing, and publishing to produce a written work.
- Identify the complete subject and the complete predicate in a sentence.
- Read independently and respond to reading in a journal.
- Use Greek and Latin roots and affixes to determine word meanings.
- Understand the research process.
- Use context clues to determine word meanings.
- Understand how characters in fiction texts develop through their conflicts and relationships.
- Explain how events in a story advance the plot and foreshadow future events.

Unit 2

- Analyze, make inferences, and draw conclusions about literary texts.
- Identify and describe different genres of fiction literature.
- State the theme of a fiction story.
- Compare and contrast themes of several works of fiction from various cultures.
- Spell words with Greek and Latin roots.
- Read independently and respond to reading.
- Describe origin myths from various cultures.
- Use a dictionary to determine word meanings, syllabication, pronunciations, and parts of speech.
- Use and understand the function of nouns, including collective nouns.
- Analyze and make inferences about a literary work to determine its theme.
- Explain the effect of a cultural event or historical time period on a literary work.
- Compare and contrast the themes of works of fiction from various cultures.
- Evaluate the impact of sensory and figurative language in a literary text.
- Spell words with Greek and Latin roots.
- Use and understand the function of active and passive verbs and regular and irregular verbs.
- Determine the meaning of words based on their context in a story.
- Use the writing process to write an imaginative story that includes a clearly defined focus, plot, and point of view.
- Create a specific, believable setting through the use of sensory details.
- Use dialogue to develop the story.

Unit 3

- Explain the effect of a historical event or movement on the theme of a work of literature.
- Describe incidents that advance a story or novel.
- Explain the roles and functions of characters in various plots, including their relationships and conflicts.
- Determine the point of view of a story and explain its effect.
- Use context to determine or clarify the meaning of unfamiliar or multiple-meaning words.
- Explain how incidents in a plot foreshadow future events.
- Use context clues (including definition, restatement, and example) to determine the meaning of unfamiliar and multiple-meaning words.
- Understand and explain the development of plot in a novel.
- Explain characters' roles, functions, relationships, and conflicts in a novel.
- Describe incidents that advance a story or novel.
- Use and understand the function of adjectives, including adjectives of origin.
- Use and understand the function of comparative and superlative adjectives.
- Identify and analyze internal and external conflicts in a novel.
- Evaluate the effect of the point of view of a novel.
- Evaluate the purpose of the author's use of imagery in a novel.
- Write a response to a work of literature.
- Identify and explain the meaning of common idioms and adages.

Unit 4

- Understand, make inferences, and draw conclusions about the structure and elements of poetry.
- Explain the effect of sound devices in poetry.
- Analyze how poets use sound devices (such as alliteration, rhyme, and onomatopoeia) to reinforce meaning in poems.
- Evaluate the impact of sensory details, imagery, and figurative language in poetry.
- Discuss the theme of a poem and the mood or feeling it creates.
- Use and understand the function of adverbs.
- Compare ideas in two poems from different time periods.
- Differentiate among different styles of poetry.
- Understand, make inferences, and draw conclusions about the structure and elements of poetry.
- Analyze how poets use poetic techniques in poetry.
- Write poetry using sound techniques and graphic elements.
- Understand the meaning of Greek and Latin suffixes and spell them.
- Analyze the effect of figurative language and imagery in poetry.
- Write poetry using imagery and figurative language, such as similes, metaphors, and personification.
- Analyze the effect of graphic elements in poetry, and write a poem.

- Understand, make inferences, and draw conclusions about the structure and elements of drama.
- Use and understand the function of different types of pronouns in sentences.
- Read and analyze a dramatic selection.
- Use and understand the function of indefinite pronouns.
- Identify the similarities and differences between an original text and a dramatic adaptation.

Unit 5

- Explain the differences between fiction and nonfiction.
- Understand the characteristics of informational texts, persuasive texts, and literary nonfiction.
- Read independently and summarize and respond to the reading.
- Spell words with vowel changes.
- Recognize and explain the structural patterns and features of literary nonfiction.
- Identify the literary language and devices used in biographies and autobiographies.
- Evaluate the impact of sensory details, imagery, and figurative language in literary text.
- Gather information for a biographical sketch.
- State the main idea and most important details of the biographical sketch.
- Read independently and respond to the reading.
- Identify and use simple and compound sentences.
- Recognize and use commas properly, including in compound sentences.
- Organize and draft a biographical sketch, using sensory language and literary devices.
- Use simple and compound sentences with correct subject-verb agreement.
- Revise, edit, and publish a biographical sketch.
- Use simple and compound sentences with correct subject-verb agreement.
- Understand, make inferences, and draw conclusions about the structure and features of literary nonfiction.
- Analyze the author's purpose in literary nonfiction texts and provide evidence from text to support understanding.
- Understand the purpose of a literary nonfiction text.
- Read and make inferences about a literary nonfiction text.
- Use a dictionary, glossary, or thesaurus to determine meanings, parts of speech, and other information about words.
- Compare two accounts of the same event in a person's life.
- Use a dictionary, glossary, or thesaurus to determine meanings, parts of speech, and other information about words.
- Produce analogies with synonyms and antonyms.

Unit 6

- Determine the author's purpose in informational and expository texts.
- Draw conclusions and evaluate how well the author's purpose was achieved.
- Summarize main ideas and details in informational and expository texts.

- Read independently and summarize the main idea and details.
- Correctly spell and use commonly confused terms.
- Analyze, make inferences, and draw conclusions about expository text.
- Use text features and graphics to gain information from a text.
- Synthesize and make logical connections between ideas in two texts.
- Determine and verify facts in an expository text.
- Plan and develop a book talk to deliver to an audience.
- Determine the meaning of words derived from Greek and Latin roots and affixes.
- Use and understand the function of prepositions and prepositional phrases.
- Prepare a nonfiction book talk to deliver to an audience.
- Determine the meaning of words formed from affixes and base words.
- Use and understand the function of prepositions and prepositional phrases.
- Rehearse and present a nonfiction book talk.
- Use effective presentation techniques, such as eye contact, speaking rate, volume, enunciation, and natural gestures.
- Choose a topic, brainstorm ideas, and organize ideas for an expository essay.
- Write effective introduction and conclusion paragraphs for an expository essay.
- Write, revise, and edit an expository essay to inform the reader about a topic.
- Use facts, details, and examples to support main ideas in an expository essay.
- Use a variety of transitions to link paragraphs.
- Use correct capitalization and use resources to verify spelling.

Unit 7

- Read independently and respond to the reading.
- Understand and develop a research plan for gathering information about a topic.
- Gather background information about the overall research topic.
- Narrow the topic to make it more focused.
- Create open-ended research questions to address the major research topic.
- Spell words with silent consonants and sounded consonants.
- Select a variety of print and electronic sources for research.
- Differentiate between primary and secondary sources.
- Select research sources that are relevant to the topic and also valid and reliable.
- Spell words with silent consonants and sounded consonants.
- Collect information from a range of print and electronic sources.
- Identify the source of notes and record bibliographic information about sources.
- Differentiate between paraphrasing and plagiarism.
- Refine the major research question, if necessary.
- Evaluate and organize information gathered from multiple sources.
- Create an outline to show relationships among ideas.
- Consider the audience and purpose of writing a research paper.
- Develop topic sentences, summarize findings, and use evidence to support conclusions.
- Use quotations to support ideas.
- Use an appropriate form of documentation to acknowledge sources.
- Write effective introduction and conclusion paragraphs.
- Use and understand the function of conjunctions and subordinating conjunctions.

- Create a bibliography to record the sources used in the research paper.
- Use and understand the function of subordinating conjunctions.
- Revise the research paper to make it clearer, more focused, and easier to follow.
- Edit the research paper to correct errors in spelling, capitalization, punctuation, and grammar.
- Publish the research paper after corrections and revisions have been made.

Unit 8

- Read independently and respond to the reading.
- Understand the purpose and features of persuasive texts.
- Read a persuasive text and identify the author's claim, reasons, and evidence.
- Spell words with consonant changes.
- Read a persuasive text and analyze the speaker's argument and organization.
- Spell words with consonant changes.
- Understand the purpose of logical and emotional techniques used in persuasive texts.
- Recognize exaggerated, contradictory, or misleading statements in persuasive texts.
- Write formal and informal letters that convey ideas, include important information, demonstrate a sense of closure, and use appropriate conventions.
- Work productively with others in teams.
- Write a persuasive text to influence a specific audience on specific issues.
- Use and understand the function of transitional words.
- Write a persuasive letter to influence a specific audience on a specific issue.
- Use sound reasoning and evidence and consider the alternatives.
- Work productively with others in teams.
- Understand the characteristics and techniques of a persuasive speech.
- Use Greek and Latin roots and affixes to determine the meanings of words.
- Listen to an inspirational persuasive speech and determine the main and supporting ideas in a speaker's message.
- Identify the persuasive techniques used in an inspirational speech.
- Use Greek and Latin roots and affixes to determine the meanings of words.
- Read a persuasive essay, use context to determine the meaning of words and ideas.
- Determine the main idea and supporting ideas in a persuasive essay.

Unit 9

- Read independently and respond to the reading.
- Identify the elements and purpose of procedural texts.
- Review the use and function of nouns and pronouns in sentences.
- Interpret details from a procedural text to complete a task, solve a problem, or perform procedures.
- Review the use and function of verbs in sentences.
- Read and analyze procedural texts.
- Interpret graphic information presented in procedural texts.
- Review the use and function of adjectives and adverbs.

- Write a procedural text to explain a process or task to a specific audience.
- Review the use and function of prepositions and conjunctions.
- Use appropriate language for procedural writing.
- Review the use of subjects and predicates in sentences.
- Write a diamante poem contrasting two ideas.
- Use simple and compound sentences with correct subject-verb agreement.
- Explain the different forms of media messages.
- Understand the audience and purpose of a media message.
- Spell words with Greek suffixes.
- Understand how words, images, graphics, and sounds work together in media messages to impact meaning.
- Identify the point of view of media messages.
- Describe the different types of digital media and analyze them for levels of formality or informality.
- Explain how to make wise media choices and be a good digital citizen.
- Use italics and underlining for titles and emphasis.

Unit 10

- Read independently and respond to the reading.
- Explain the difference between active and passive listening.
- Practice effective listening strategies.
- Spell words with Greek and Latin roots and suffixes.
- Listen to and interpret a speaker's message.
- Pay attention to the speaker's nonverbal communication.
- Use body language and nonverbal cues to demonstrate listening.
- Listen to a radio story and determine the main idea and supporting details.
- Understand the difference between formal and informal speaking.
- Identify effective speaking strategies, such as eye contact, rate, volume, enunciation, gestures, and conventions of language.
- Review correct capitalization.
- Prepare a how-to speech to give oral instructions.
- Create notecards and visuals to help explain a process.
- Review correct punctuation.
- Give and follow oral instructions that include multiple action steps.
- Review capitalization and punctuation usage.
- Practice listening and speaking skills with a group.
- Observe nonverbal communications in a group setting.
- Distinguish between commonly confused terms.
- Read aloud with expression.
- Identify parts of speech.
- Learn proper telephone communications.
- Form analogies using synonyms and antonyms.

6th Grade ELA – 2nd Edition

Unit 1

- Practice to improve reading fluency and comprehension.
- Identify the complete subject and complete predicate.
- Use the context to determine word meanings.
- Identify the simple subject and the simple predicate in a sentence.
- Read aloud with a partner, practicing fluency and comprehension.
- Listen with comprehension when others read aloud.
- Identify compound subjects and predicates.
- Identify an author's purpose and establish purposes for reading.
- Spell words with the *ie* pattern.
- Identify the genres of fiction and nonfiction literature.
- State the main idea and summarize texts.
- Summarize, make inferences, and use text evidence from fiction.
- Identify the basics of writing a paragraph and an informative essay.
- Spell words with the *ei* pattern.
- Brainstorm ideas, use a graphic organizer, and write a paragraph.
- Revise, edit, and publish an informative essay.

Unit 2

- Identify the elements of characterization, setting, and conflict in fiction.
- Identify plot elements, point of view, and theme in fiction.
- Analyze point of view, suspense, and plot development.
- Analyze different uses of words and phrases.
- Write a conclusion to a story.
- Identify and compare genres of fiction texts.
- Watch a video and make comparisons to the text.
- Analyze a fiction story to determine genre and plot development.
- Make inferences about fiction texts, including the theme.
- Make inferences about setting and dialect.
- Paraphrase and make inferences from fiction.
- Identify the meanings of common affixes and roots.
- Use a word's prefix or root to determine its meaning.

Unit 3

- Classify traditional and classical literature.
- Identify stylistic elements and their purposes.
- Analyze a fable for stylistic elements.
- Analyze elements of a myth.
- Analyze literature from various cultures.
- Plan an imaginative story by brainstorming.
- Demonstrate the function of helping verbs and verbs.

- Develop a plot diagram to plan a fiction story.
- Create complex characters with physical, social, and emotional traits.
- Spell regular and irregular verbs correctly.
- Incorporate a setting and dialogue to develop a story.
- Use fiction-writing techniques to write a draft of an imaginative story.
- Identify the meanings of common Greek and Latin prefixes.
- Revise and edit an imaginative story.
- Get feedback and publish an imaginative story.

Unit 4

- Recognize imagery, sensory language, and theme in poetry.
- Spell words that contain the vowel digraphs *ou* and *ough*.
- Recognize and describe the effect of sound devices in poetry.
- Explain how figurative language contributes to the meaning of a poem.
- Describe different styles of poetry.
- Explain the purpose of graphic elements in poetry.
- Distinguish between count and noncount nouns.
- Analyze graphic elements in poetry.
- Write a haiku and a free verse poem.
- Use correct subject-verb agreement in sentences.
- Revise, edit, and share poems.
- Write titles and compound sentences correctly.
- Describe the basic elements of drama.
- Read and make inferences about drama.
- Compare a film scene from *The Wizard of Oz* to the play script.

Unit 5

- Make predictions and generate questions before reading.
- Identify flashback and use new vocabulary.
- Analyze sensory details and figurative language.
- Use context and a dictionary to determine word meanings.
- Confirm genre predictions.
- Recognize and explain sarcasm in a literary text.
- Analyze conflicts and summarize events.
- Make inferences about the characters and events.
- Illustrate a scene from the text.
- Make inferences about details and foreshadowing.
- Define and recall words by using context.
- Analyze character development in a story.
- Take notes and annotate to write an essay.
- Compare ideas in two texts of different genres.
- Make conclusions and discuss a fiction story.
- Analyze a character's reactions.
- Revise and edit an essay.

Unit 6

- Analyze informational text.
- Select and read an informational book for a report.
- Use text evidence to make inferences.
- Recognize and analyze analogies.
- Analyze figurative language in informational text.
- Identify different parts of a book's construction.
- Read an informational book and write a book report.
- Identify and write active and passive verb sentences.
- Identify and write prepositions and prepositional phrases.
- Identify and use pronouns correctly.
- Compare genres on similar topics.
- Analyze a technical text with graphics.
- Use parentheses correctly.
- Revise and edit a book report.
- Combine sentences in various ways.

Unit 7

- Understand audience, purpose, and guidelines for writing a research report.
- Decide on a research topic and generate questions.
- Develop a research plan; evaluate and cite sources.
- Evaluate sources for persuasive devices and write notecards.
- Interpret and summarize information from graphics.
- Cite a source in a paragraph.
- Paraphrase and summarize information on notecards.
- Use an ellipsis and write quotations correctly.
- Organize information, create an outline, and reformulate the research question.
- Write body paragraphs using topic sentences.
- Formulate a thesis statement and write an analysis.
- Identify and use adjectives and adverbs correctly.
- Write an introduction and a conclusion for a research report.
- Type, revise, edit, and publish a research report.

Unit 8

- Understand the meaning and use of persuasion.
- Define and analyze rhetorical devices and appeals.
- Identify and write logical fallacies.
- Evaluate claims in a political speech.
- Write an analysis using evidence from the text.
- Write and punctuate complex sentences correctly.
- Analyze a persuasive essay that uses an anecdote.

- Identify problem/solution and classification organizations.
- Analyze an essay for tone, structural elements, and persuasion.
- Choose a persuasive topic and formulate a thesis.
- Research and evaluate evidence to answer a claim.
- Write an anecdote that supports a persuasive claim.
- Make an outline and write a draft.
- Use subordinate clauses to write claims and reasons.
- Type, revise, and edit a persuasive essay.

Unit 9

- Identify elements used in media.
- Analyze purpose, audience, appeals, and graphics in media.
- Recognize and analyze effective public speaking skills.
- Listen to, summarize, and evaluate a video presentation.
- Discuss answers and collaborate with a peer.
- Practice presentation skills.
- Evaluate a speaker's presentation skills.
- Create a multimedia presentation.
- Use commas with coordinate adjectives and interjections, and in a list.
- Use the correlative conjunctions neither/nor and either/or correctly.
- Avoid vague pronoun references.
- Use commonly confused words correctly.
- Write initials, abbreviations, and acronyms correctly.
- Use possessives correctly.
- Revise and edit a persuasive essay.
- Present a multimedia project.

Unit 10

- Define vocabulary pertaining to listening skills.
- Identify purposes and skills for effective listening.
- Listen to and follow a set of instructions to make a craft.
- Write a procedure and give oral instructions to make a craft.
- Follow a format to write a personal letter.
- Use a Venn diagram to compare and contrast two items.
- Use a compare-and-contrast organization to write a business letter of an opinion.
- Use informational sources to find synonyms and antonyms of a word.
- Distinguish the correct denotation and connotation of a word in context.
- Determine main ideas and make inferences.
- Define and identify direct and indirect objects.
- Define and identify transitive and intransitive verbs.
- Write a memoir, and revise and edit it.
- Use relative pronouns and relative adverbs correctly.
- Engage in teamwork and a formal discussion.

7th Grade ELA – 2nd Edition

Unit 1

- Understand and use the parts of speech effectively.
- Identify and use the perfect tenses of verbs.
- Recognize and use the progressive form of verbs.
- Understand the function of participles in sentences.
- Use consistent verb tenses in writing.
- Identify and use appositive phrases correctly.
- Identify and understand the function of adverbial and adjectival phrases.
- Understand the difference between a phrase and a clause.
- Differentiate between main clauses and subordinate clauses.
- Understand the difference between three types of sentence structures—simple, compound, and complex.
- Understand the roles of adverbial and adjectival clauses in sentences.
- Identify subordinating conjunctions and that begin adverbial clauses.
- Identify relative pronouns begin adjectival clauses.
- Understand how prepositional phrases between the subject and the verb in a sentence influence subject-verb agreement.
- Know how to write sentences with parallel structures.
- Formulate transitions between sentences and paragraphs.
- Identify and use conjunctive adverbs.

Unit 2

- Identify root words, prefixes, and suffixes of Greek and Latin origins.
- Identify number root words of Greek and Latin origins.
- Identify prefixes of Greek and Latin origins.
- Identify suffixes of Greek and Latin origins.
- Identify Greek and Latin phrases used in written English.
- Use context clues to help learn the meaning of unfamiliar words.
- Use various methods for studying and learning unfamiliar words.
- Complete analogies that describe whole-to-part or part-to-whole relationships.
- Use a dictionary and a thesaurus.
- Employ the use of references to understand the etymology of words.
- Understand the meanings of new words by using the context to help decipher them.
- Use vocabulary in context to comprehend an entire written text.
- Understand and use the conventions of capitalization.
- Recognize and use punctuation marks, such as commas, semicolons, colons, and hyphens.

Unit 3

- Analyze, make inferences, and draw conclusions about a literary work based on the text.
- Distinguish between the genres of fiction and nonfiction.
- Describe themes presented in a work of fiction.
- Describe conventions in myths and epic tales.
- Analyze the influence of setting on the theme of a literary work.
- Explain the influence of setting on plot development.
- Analyze the development of the plot through character motivations and conflicts.
- Analyze the effect of point of view on a literary work.
- Determine the figurative meaning of phrases.
- Analyze how an author's use of language creates imagery, appeals to the senses, and suggests mood.
- Understand and explain the structural patterns and features of literary nonfiction.

Unit 4

- Select a nonfiction book and use reading skills to comprehend it.
- Evaluate text features, genre characteristics, and kinds of sources.
- Interact with text by freewriting and making images.
- Analyze a text for perspective, purpose, and intended audience.
- Define the writing process and elements of good writing.
- Analyze and critique a book.
- Analyze a critique for main ideas, tone, perspective, and form.
- Write a thesis, follow an outline, and type a draft.
- Identify and write compound and complex sentences correctly.
- Identify and use conjunctions, conjunctive adverbs, and relative pronouns.
- Revise using transitions, sentence combining, and parallel structure.
- Edit for subject-verb agreement, consistent verb use, and pronoun-antecedent and case agreement.
- Edit for precise words, incorrect usage, misplaced modifiers, and paragraph organization.
- Practice reading fluency, and listening and discussion skills.
- Plan and draft a personal narrative using plot elements.
- Analyze a narrative for literary elements.
- Revise, edit, publish, and discuss a narrative.

Unit 5

- Understand the difference between fiction and nonfiction texts, as well as their purposes.
- Analyze, make inferences, and draw conclusions about expository texts and the author's purpose in cultural, historical, and contemporary contexts and provide evidence from the text to support understanding.
- Distinguish factual claims from commonplace assertions and opinions.
- Understand how an author's use of opinions and assertions reflects bias.

- Find the main idea and supporting details in an expository text.
- Use different organizational patterns as guides for summarizing and forming an overview of different kinds of expository texts.
- Synthesize and connect ideas within a text and across two or three texts.
- Evaluate a summary of an original text for accuracy of the main ideas, supporting details, and overall meaning.
- Plan a first draft by selecting a topic, brainstorming ideas, organizing ideas, and developing a thesis statement.
- Write an expository essay to convey information about a topic using a variety of sentence structures, rhetorical devices, and transitions.
- Revise a rough draft to improve the focus and development of ideas, organization, and style.
- Proofread and edit a rough draft of an expository essay to correct errors in mechanics, spelling, grammar, usage, and sentence structure; then publish a final draft.
- Accurately synthesize ideas from several sources.
- Follow multidimensional instructions from text to complete a task, solve a problem, or perform procedures and learn how to gather and use information.
- Explain the function of the graphical components of a procedural text.
- Write a letter that reflects an opinion, registers a complaint, or requests information.

Unit 6

- Understand the difference between poetry and prose.
- Determine the theme of a poem.
- Understand, make inferences, and draw conclusions about the structure and elements of poetry.
- Understand the influence of sound devices (rhyme, rhythm, alliteration, onomatopoeia) on poetry.
- Analyze a poet's use of sensory language to convey images.
- Understand figurative language devices used in poetry.
- Analyze the influence of figurative language on the theme of a poem.
- Differentiate between the styles of narrative and lyric poetry.
- Understand the characteristics of poetic structures, such as limerick, haiku, and free verse.
- Analyze the importance of graphical elements on a poem.
- Write a poem using poetic techniques, figurative language, and graphical elements.
- Understand, make inferences, and draw conclusions about the structure and elements of drama.
- Explain a playwright's use of dialogue and stage directions.

Unit 7

- Brainstorm and consult with others to decide upon a research topic.
- Conduct preliminary research to narrow topic.
- Create a written plan for the research project.
- Design a major research question that addresses the topic.
- Develop secondary questions for research.
- Obtain and evaluate information from a wide variety of sources.
- Gather information from a range of relevant print and electronic sources.
- Demonstrate the reliability of sources used, and explain why one source is more useful than another.
- Record bibliographic information about all sources using source cards.
- Take notes from sources using note cards.
- Paraphrase information gathered from research to avoid plagiarism.
- Narrow or broaden the research question, if necessary.
- Write a thesis statement that reflects the main idea of the research paper.
- Categorize information gathered from research thematically.
- Write a research paper that draws conclusions and summarizes and paraphrases information.
- Use evidence to explain the topic and give relevant reasons for conclusions.
- Present the information in a meaningful format.
- Use parenthetical documentation to integrate quotations and citations into the written text.
- Revise, proofread, edit, and publish a research essay.
- Create and present a multimedia presentation using text, graphics, images, and sound to present the research topic.
- Listen attentively to other students' multimedia presentations.

Unit 8

- Analyze, make inferences, and draw conclusions about persuasive text and provide evidence from the text to support analysis.
- Understand the purpose and audience of a persuasive text.
- Analyze the structure of the central argument in a persuasive text.
- Identify the types of evidence used to support the central argument in a persuasive text.
- Identify an author's use of persuasive techniques, such as appeal to authority, emotion, logic, and ethics.
- Identify rhetorical fallacies, such as ad hominem, exaggeration, stereotyping, and categorical claims in persuasive texts.
- Examine a text for evidence of an author's bias.
- Establish a clear thesis or position statement.
- Consider and respond to the views of others and anticipate and answer reader concerns and counterarguments.
- Include evidence that is logically organized to support the viewpoint.
- Differentiate between fact and opinion in persuasive writing.
- Develop and present a persuasive speech to a group of students.

- Speak clearly and to the point, and use the conventions of language while delivering a persuasive speech.
- Listen to and interpret a speaker's purpose by explaining the content, evaluating the delivery of the presentation, and asking questions or making comments about the evidence that supports a speaker's claims.

Unit 9

- Read grade-level text with fluency and comprehension.
- Use background information to aid comprehension.
- Use context to determine or clarify the meaning of unfamiliar or ambiguous words.
- Analyze the effect of different forms of point of view.
- Understand, make inferences, and draw conclusions about how an author's use of sensory language creates imagery in literary text and determine the figurative meaning of phrases.
- Understand, make inferences, and draw conclusions about the varied structural patterns and features of literary nonfiction.
- Analyze the development of the plot through the internal and external conflicts and motivation of the characters.
- Analyze, make inferences, and draw conclusions about theme and genre in historical contexts, and describe multiple themes in a work of fiction.
- Analyze how time and place influence the theme or message of a literary work.
- Understand, make inferences, and draw conclusions about the structure and elements of fiction and poetry.
- Explain the influence of the setting on plot development.
- Analyze, make inferences, and draw conclusions about the author's purpose in historical informational texts.
- Write responses to literary texts that demonstrate the writing skills for multi-paragraph essays and provide sustained evidence from the text using quotations when appropriate.

Unit 10

- Analyze how words, images, graphics, and sounds work together in various forms to impact meaning.
- Interpret both explicit and implicit messages in various forms of media.
- Evaluate various ways media influences and informs audiences.
- Interpret how visual and sound techniques influence the message.
- Assess the correct level of formality and tone for successful participation in various digital media.
- Listen attentively to others in formal and informal settings.
- Listen to and interpret a speaker's purpose by explaining the content, evaluating the delivery of the presentation, and asking questions or making comments about the evidence that supports a speaker's claims.

- Draw conclusions about the speaker's message by considering verbal communication and nonverbal cues.
- Follow and give complex oral instructions to perform specific tasks, answer questions, or solve problems.
- Speak clearly and to the point, using the conventions of language.
- Present a critique of a literary work, film, or dramatic production, employing eye contact, speaking rate, volume, enunciation, a variety of natural gestures, and conventions of language to communicate ideas effectively.
- Work productively with others in teams.
- Participate productively in discussions, plan agendas with clear goals and deadlines, set time limits for speakers, take notes, and vote on key issues.

8th Grade ELA – 2nd Edition

Unit 1

- Understand the function of verbs, participles, and appositive phrases.
- Understand adverbial phrases and clauses as well as subordinating conjunctions.
- Understand relative pronouns and differentiate between main versus subordinating clauses.
- Correctly identify antecedents, parallel structures, and consistent tenses in a variety of complete sentences.
- Use conventions of capitalization.
- Use correct punctuation marks.
- Use correct spelling.
- Understand the difference between formal and informal when writing or speaking.

Unit 2

- Define fluency and comprehension and check your understanding.
- Use context clues and author's word choices to aid comprehension.
- Understand how to decode unfamiliar words.
- Recognize Greek and Latin roots.
- Use a dictionary to discover meaning, pronunciation, part of speech, and syllabication.
- Assess how root words, prefixes, and suffixes create meaning.
- Practice word decoding through the use of analogies.

Unit 3

- Learn the five steps of the writing process.
- Understand the six purposes of writing.
- Understand the importance of planning before writing.
- Know how to gather information for your writing project.
- Write a thesis statement that expresses the main idea.
- Organize your facts by using an outline, a mind map, or a chart.
- Develop a rough draft using the information from your graphic organizer.
- Write an introduction (including a thesis statement), supporting paragraphs, and a solid conclusion.
- Revise, edit, and publish your final draft.
- Understand the components and structure of a narrative.
- Write an imaginative story to entertain the reader by following the steps of the writing process.
- Understand the elements of story writing, including word choice, characterization, mood, flashback, and foreshadowing.
- Understand the characteristics of a personal narrative.

- Use the writing process to write a personal narrative.

Unit 4

- Read grade-level texts with fluency and comprehension.
- Analyze, make inferences, and draw conclusions about theme and genre in literary texts.
- Analyze literary works that share similar themes across cultures.
- Analyze how the central characters' qualities influence the theme of a fictional work and resolution of the central conflict.
- Understand, make inferences, and draw conclusions about the structure and elements of fiction.
- Analyze plot developments to determine whether and how conflicts are resolved.
- Explain how the values and beliefs of particular characters are affected by the historical and cultural setting of a literary work.
- Analyze different forms of point of view, including limited versus omniscient, and subjective versus objective.
- Understand, make inferences, and draw conclusions about the structure and elements of poetry.
- Understand, make inferences, and draw conclusions about how an author's use of sensory language creates imagery in a literary text.
- Explain the effect of figurative language, such as similes and extended metaphors, on a literary text.
- Compare and contrast the purposes and characteristics of different poetic forms.
- Write poems using poetic techniques, figurative language, and graphic elements.
- Compare and contrast mythologies from various cultures.
- Apply knowledge of literary terms to a fictional work.

Unit 5

- Analyze, make inferences, and draw conclusions about the author's purpose in cultural, historical, and contemporary contexts.
- Understand, make inferences, and draw conclusions about the structural patterns and features of literary nonfiction.
- Explain the character's decisions based on the historical and cultural setting of a work of nonfiction.
- Analyze, make inferences, and draw conclusions about expository texts.
- Summarize main ideas, supporting details, and relationships among ideas in an expository text.
- Distinguish factual claims from opinions in expository texts.
- Write a multi-paragraph essay to convey information about a topic.
- Write effective introduction and concluding paragraphs for an expository essay.
- Write a clearly stated purpose or controlling idea.
- Logically organize facts and details with no unnecessary information.
- Use a variety of sentence structures, rhetorical devices, and transitions to link paragraphs.

- Synthesize and make logical connections between ideas within a text and across two or three texts.
- Analyze procedural texts for missing or unnecessary information.
- Evaluate graphics for their clarity in communicating meaning or achieving a specific purpose.
- Understand the parts of a business letter and the procedure for writing a business letter.
- Write a letter that reflects an opinion, registers a complaint, or requests information.

Unit 6

- Develop a research plan and brainstorm to decide on a topic.
- Formulate an open-ended research question to address the topic.
- Determine, locate, and explore relevant sources.
- Evaluate sources for reliability and validity and explain the usefulness of sources.
- Gather information from sources by taking notes and avoiding plagiarism.
- Record bibliographic information from sources for all information gathered.
- Narrow or broaden research question based on research and investigation.
- Develop a tentative outline and a thesis statement.
- Create a final outline for the research paper.
- Write an introductory paragraph with a well-stated thesis.
- Arrange evidence to explain the topic and give reasons for conclusions.
- Summarize and paraphrase information gathered from sources.
- Integrate quotations and citations into the written text to maintain a flow of ideas.
- Write a concluding paragraph with a restated thesis.
- Revise the rough draft by evaluating ideas, evidence, word choice, style, and tone.
- Proofread and edit to correct errors in mechanics, spelling, grammar, usage, and sentence structure.
- Polish any rough areas and write a final draft.
- Create a multimedia presentation from the research essay.

Unit 7

- Analyze, make inferences, and draw conclusions from informational texts.
- Synthesize ideas from several sources to gain understanding about an author's background.
- Make inferences and draw conclusions from evidence given in a fictional mystery story.
- Demonstrate reading fluency and comprehension.
- Use context to determine or clarify the meaning of unfamiliar words.
- Identify words from other languages that are used in written English.
- Use a dictionary or a thesaurus to determine the meanings and synonyms of words.

- Analyze, make inferences, and draw conclusions about theme and genre in different cultural and historical contexts.
- Explain figures of speech, such as metaphors and idioms, used in a fictional work.
- Analyze linear plot development to determine whether and how conflicts are resolved.
- Analyze how the central characters' qualities influence the theme of a fictional work and resolution of the central conflict.
- Analyze different forms of point of view.
- Write responses to literary texts that demonstrate the use of writing skills for a multi-paragraph essay and provide evidence from the text using quotations.

Unit 8

- Choose and read a nonfiction book as a primary or secondary source.
- Make predictions, ask questions, define an author's purpose, and analyze informational text.
- Define and recognize elements of persuasive writing and rhetorical devices.
- Analyze elements of persuasion in a political speech.
- Define, recognize, and analyze fallacies.
- Define and analyze stereotyping and prejudice.
- Analyze and compare arguments and appeals in persuasive essays.
- Analyze and plan an argumentative essay.
- Compose a multi-paragraph argumentative text using genre characteristics.
- Research for valid sources and cite them using Modern Language Association (MLA) format.
- Revise and edit for spelling and grammar errors.
- Deliver a persuasive speech.
- Evaluate a speaker's argument and presentation skills.

Unit 9

- Understand the purposes of various types of media.
- Analyze how words, images, graphics, and sounds work together in various forms to impact meaning.
- Interpret how visual and sound techniques influence the message.
- Evaluate the role of media in focusing attention on events and informing opinion on issues.
- Evaluate various techniques used to create a point of view in media.
- Evaluate the impact of media on the audience.
- Understand the use of propaganda techniques in media.
- Assess the correct level of formality and tone for successful participation in digital media.
- Use comprehension skills to listen attentively to others in formal and informal settings.

- Follow and give complex oral instructions to perform specific tasks, answer questions, or solve problems.
- Summarize formal and informal presentations.
- Speak clearly and to the point, using the conventions of language.
- Use eye contact, speaking rate, volume, enunciation, a variety of natural gestures, and conventions of language to communicate ideas effectively.
- Advocate a position using anecdotes, analogies, and/or illustrations.
- Work productively with others in teams.
- Participate productively in discussions, plan agendas with clear goals and deadlines, set time limits for speakers, take notes, and vote on key issues.

Unit 10

- Read with fluency and comprehension.
- Understand, make inferences, and draw conclusions about the structure and elements of drama and provide evidence from the text to support understanding.
- Use a dictionary or thesaurus to determine the meanings of words.
- Analyze, make inferences, and draw conclusions about the theme and genre of a literary work.
- Understand, make inferences, and draw conclusions about the structure and elements of fiction and provide evidence from text to support understanding.
- Analyze how playwrights characterize their protagonists and antagonists through the dialogue and staging of their plays.
- Gather information from a range of relevant print and electronic sources.
- Analyze how the central characters' qualities influence the theme of a fictional work and resolution of the central conflict.
- Analyze linear plot developments to determine whether and how conflicts are resolved.
- Analyze different forms of point of view.
- Understand, make inferences, and draw conclusions about how an author's sensory language creates imagery in a literary text.
- Use context to determine or clarify the meanings of unfamiliar words.
- Explain how the values and beliefs of particular characters are affected by the historical and cultural setting of the literary work.
- Write responses to literary texts that demonstrate the use of writing skills for a multi-paragraph essay and provide sustained evidence from the text using quotations when appropriate.

English I – 3rd Edition

Unit 1

- Recognize parts of speech and simple sentence patterns.
- Identify simple and complete subjects and predicates.
- Identify and use verb tenses correctly.
- Identify and use active and passive voice sentences correctly.
- Identify and use indicative, imperative, and subjunctive mood verbs correctly.
- Use verb tenses consistently and in parallel form.
- Use adjectives, pronoun adjectives, and possessives correctly.
- Use correct capitalization.
- Identify and use pronouns correctly.
- Identify and use adverbs correctly.
- Analyze and edit ideas in a narrative.
- Define the elements and style of an expository essay.
- Define the tasks involved in the writing process.
- Identify and use transition words between ideas.
- Write an expository essay based on a prompt.

Unit 2

- Understand the goal of active reading.
- Practice and use prereading strategies, such as scanning and surveying, setting a purpose for reading, and activating prior knowledge.
- Use the reading comprehension strategies of marking a text, making connections, making inferences, and summarizing text.
- Analyze the effect of setting and plot structure on a narrative text.
- Understand how writers create interesting and believable characters.
- Analyze conflict and characterization in a short story.
- Identify the point of view of a story and analyze its effect.
- Determine the theme of a fictional short story.
- Analyze a writer's use of sensory and figurative language.
- Distinguish among the types of figurative language.
- Identify verbal, situational, and dramatic irony in a literary text.
- Complete a graphic organizer to plan the structure of a fictional narrative.
- Draft a fictional narrative, using ideas gathered during the planning stage.
- Revise, proofread, and edit a rough draft, after obtaining feedback from peers.
- Publish a fictional narrative.

Unit 3

- Define the differences between prose and poetry and between connotative and denotative words.
- Identify sentence types, predicate nominatives, and indirect objects.
- Use prepositional phrases correctly when combining sentences.
- Use a dictionary or other English grammar resource.
- Use subordinate clauses correctly when combining sentences.
- Identify and use verbals (gerunds, infinitives, and participles) correctly when combining and revising sentences.
- Use compounds and punctuate them correctly when revising and combining sentences.
- Use punctuation correctly with appositives, interjections, addresses, dates, and quotations.
- Use dashes and hyphens correctly; spell correctly.
- Evaluate sound devices in poetry.
- Define and analyze poetry forms and genres.
- Analyze poems for meaning and the controlling image.
- Write an expository essay based on a prompt.

Unit 4

- Describe the types and characteristics of nonfiction texts.
- Distinguish between a summary and a critique.
- Identify the controlling idea in a nonfiction text.
- Explain the purpose of text features in nonfiction.
- Analyze how an author unfolds an analysis or series of ideas or events.
- Analyze how an author's ideas and claims are developed and refined.
- Make subtle inferences and draw complex conclusions about nonfiction texts.
- Determine an author's point of view.
- Understand the components and organization of an analytical essay.
- Choose a topic and answer questions about the topic to plan an analytical essay.
- Use a graphic organizer to plan an analytical essay.
- Choose an appropriate organizational strategy for an analytical essay.
- Write a clear thesis statement for an analytical essay.
- Create an outline for an analytical essay.
- Draft, revise, edit, and publish an analytical essay.
- Identify the purpose of using a dictionary and a thesaurus.
- Use a thesaurus to generate synonyms of words.
- Use a dictionary to locate a word's pronunciation, meaning, part of speech, and etymology.
- Solve analogies by identifying the relationships between pairs of words.
- Explain the difference between the connotations of two words that are synonyms.
- Describe the origins and meanings of foreign words or phrases used frequently in written English.

- Distinguish among simple, compound, complex, and compound-complex sentences.
- Use a variety of sentence structures, lengths, and openings in written texts.

Unit 5

- Explain why it is important to study ancient myths and epics.
- Identify the characteristics of an epic.
- Describe an epic hero.
- Identify the primary gods and goddesses of Greek mythology.
- Know how, when, and by whom the Odyssey was composed.
- Discuss the narrative structure of an epic.
- Understand how archetypes, epithets, and motifs are used in the Odyssey.
- Read and comprehend the plot of the Odyssey.
- Demonstrate a familiarity with ancient and classical literature.
- Analyze how complex characters develop over the course of a text.
- Determine the meaning of words and phrases as they are used in a text, including figurative meanings.
- Analyze a particular cultural experience reflected in an ancient literary text.
- Analyze the representation of a key scene in two different artistic mediums.
- Examine characters' internal and external conflicts.
- Identify character archetypes in the Odyssey.
- Discuss how themes are portrayed in the Odyssey.
- Analyze a poem to determine its theme and compare it with the Odyssey.
- Write a poem using figurative language, imagery, and an appropriate style and structure.

Unit 6

- Discuss thinking skills for research and the avoidance of plagiarism.
- Understand the purpose of using MLA documentation style in research writing.
- Develop an understanding of the Russian Revolution and the rise of communism in Russia.
- Perform background reading about a research topic.
- Formulate a major research question to address a major research topic.
- Brainstorm ideas and create a tentative outline to formulate a plan for research.
- Differentiate between primary and secondary sources.
- Create a list of sources using MLA documentation style.
- Evaluate the reliability of sources used for research.
- Describe the three methods of taking notes from sources—paraphrasing, summarizing, and quoting.
- Create notecards to gather information from sources according to a standard format.
- Paraphrase, summarize, and quote relevant information from sources.
- Write a clear, focused thesis statement for the research essay.

- Organize a final outline with main points, sub points, and supporting details.
- Write a rough draft, including an introduction, body, conclusion, and works-cited list.
- Revise the research essay to improve the focus, content and development, organization, clarity and style, and MLA format.
- Read and edit a sample research paragraph.
- Edit and proofread the rough draft for grammar, sentence structure, spelling, capitalization, punctuation, and parallel structure.
- Obtain peer feedback about the research essay, and review a peer's research essay.
- Publish the research essay and give an oral presentation and create a visual or audiovisual product to display the findings of the research project.

Unit 7

- Define allegory and describe the purpose of an allegory.
- Explain the events in George Orwell's life that influenced him to write Animal Farm.
- Identify Orwell's purpose in writing Animal Farm.
- Identify key people and ideas associated with the historical time period on which Animal Farm is based.
- Infer definitions of words based on their context.
- Make inferences about the characters and events of Animal Farm.
- Discuss symbolism, anthropomorphism, and foreshadowing in Animal Farm.
- Understand how prefixes, roots, and suffixes influence the meanings of words.
- Explain the use of propaganda in Animal Farm.
- Identify the historical parallels between the symbolic characters, places, and events in Animal Farm and people, places, and events in history.
- Discuss the use of propaganda in Animal Farm and in Russia during Stalin's dictatorship.
- Understand the difference between a utopia and a dystopia.
- Explain the use of euphemism in Animal Farm.
- Describe the narrator's tone and explain the effect of the narrator's point of view and tone.
- Discuss the symbolism of the ending of Animal Farm.
- Explain the use of satire in Animal Farm.
- Trace the development of the theme of the corrupting nature of absolute power in Animal Farm.
- Plan and draft a literary response essay analyzing an aspect of Animal Farm, such as tone, characterization, or plot.
- Use commas, colons, semicolons, quotation marks, and dashes correctly and effectively.

Unit 8

- Identify the characteristics and components of persuasive texts.
- Analyze, make inferences, and draw conclusions about persuasive texts.
- Identify a speaker's purpose, argument, and audience.
- Describe the rhetorical appeals and devices commonly used to persuade an audience.
- Distinguish between deductive and inductive reasoning.
- Analyze famous speeches for the rhetorical appeals and devices used to convince the reader of the speakers' propositions.
- Synthesize and make logical connections between ideas and details in two speeches that relate to similar topics.
- Write a rhetorical analysis of a famous speech, analyzing the rhetorical appeals and devices used to shape the theme.
- Identify several common rhetorical and logical fallacies and recognize them in persuasive writing.
- Describe the effect that rhetorical and logical fallacies have on a text.
- Plan an argumentative letter by choosing a topic, considering the audience, and stating a purpose.
- Develop a persuasive argument by stating a proposition, formulating logical reasons, gathering precise and relevant evidence, and anticipating objections.
- Use the correct format for a business letter.
- Draft an argumentative letter using a clear organizational strategy, effective transitions, a formal style, and a direct, objective tone.
- Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.

Unit 9

- Identify and understand the structure and elements of drama.
- Differentiate between comedy and tragedy plays.
- Analyze the dialogue and stage directions of a modern realistic drama.
- Research William Shakespeare and identify key facts related to his life.
- Understand the background and cultural context of Romeo and Juliet.
- Analyze Shakespeare's use of rhyme, metrical patterns, imagery, figurative language, and wordplay.
- Read, analyze, and make inferences about the characters, dialogue, and plot of Romeo and Juliet.
- Identify instances of foreshadowing in Romeo and Juliet.
- Interpret Shakespeare's language, particularly his use of inverted word order.
- Identify literary devices such as metaphor, oxymoron, personification, pun, and understatement in Romeo and Juliet.
- Differentiate among blank verse, rhymed verse, and prose in Romeo and Juliet.
- Relate key events in Romeo and Juliet to life today.
- Analyze the plot development of Romeo and Juliet, and identify key events for each element of the plot.
- Understand Shakespeare's use of tragic irony and identify instances of tragic irony in Romeo and Juliet.

- Explain the significance of key events in Act 5 of Romeo and Juliet.
- Identify a conflict that is resolved in Romeo and Juliet.
- Analyze rhetorical devices and themes in Romeo and Juliet.
- Create and deliver a multimedia presentation about a topic related to Romeo and Juliet to an audience of your classmates.

Unit 10

- Self-select text, read, ask questions, and take notes.
- Synthesize information from two texts.
- Recall purposes, advantages, disadvantages, and effects of media.
- Recognize elements of media and how they show bias and tone.
- Analyze a media message and compare media forms.
- Analyze parts of an e-mail and write a business e-mail.
- Read a self-selected text and ask questions, make visual images, and monitor for understanding.
- Define effective listening and speaking skills.
- Analyze the effectiveness of multimodal and digital texts.
- Follow and give oral instructions to perform a task.
- Research a topic, defend or challenge ideas, and discuss ideas to reach a goal.
- Decide upon roles, consensus determination, discussion rules, and criteria for evaluating participation.
- Determine word meanings and parts of speech based on context, roots, and affixes.
- Analyze elements of a persuasive speech.

English II – 3rd Edition

Unit 1

- Recognize basic parts of speech and basic sentence patterns.
- Use active and passive voices, verb tenses, and moods correctly.
- Identify and use adverbs correctly.
- Use correct punctuation with prepositions, conjunctions, and interjections.
- Identify elements of fiction.
- Analyze the plot, characterization, setting, point of view, and theme of a text.
- Evaluate the structure, central ideas, evidence, and tone of a nonfiction text.
- Evaluate a persuasive essay for its genre characteristics and ideas.
- Compare point of view and tone in two nonfiction texts.
- Recognize and use the traits of good writing.
- Use topical organization and transitions in writing.
- Write, revise, and edit a persuasive essay of 250–300 words.

Unit 2

- Choose a book to read; ask questions and take notes.
- Synthesize information from two texts.
- Compose an informational book report with a commentary.
- Identify and use pronouns correctly.
- Use commas correctly with restrictive and nonrestrictive clauses.
- Define, identify, and diagram verbals and phrases.
- Recognize and diagram subordinate clauses and phrases in sentences.
- Identify sentences as simple, compound, complex, or compound-complex.
- Identify and diagram different sentence structures.
- Plan a personal narrative by freewriting and using graphic organizers.
- Draft a personal narrative with an engaging lead and a clear focus.
- Evaluate and revise a personal narrative.
- Proofread and edit a narrative for capitalization, punctuation, and spelling.
- Generate questions after reading a self-selected book and turn in a book report.

Unit 3

- Use context as a clue to the meaning of an unfamiliar word or phrase.
- Determine the meaning of words and phrases as they are used in literary selections.
- Analyze plot development in a literary text.
- Understand the meanings of foreign words and phrases, and determine the meaning of words derived from Greek and Latin roots.
- Determine the meaning of words based on their roots and affixes.

- Identify and correctly use patterns of word changes that indicate different meanings or parts of speech.
- Consult a dictionary, thesaurus, or glossary to find a word's pronunciation, part of speech, etymology, and precise meaning.
- Understand word relationships, such as synonyms, antonyms, homonyms, and heteronyms.
- Use word relationships, such as analogies, to infer word meaning.
- Distinguish between denotative and connotative meanings of words.
- Analyze shades of meaning in connotations of words with similar denotations.
- Analyze the impact of word choice on the meaning and tone of a text.
- Interpret figures of speech, such as euphemism, oxymoron, verbal irony, and pun.

Unit 4

- Discern and state the theme of a literary work.
- Describe the setting, characters, and plot of a literary work.
- Make inferences to support analysis of a literary work.
- Analyze how the structure of a text creates effects such as mystery, tension, or surprise.
- Analyze isolated scenes and discuss their contribution to the success of the plot as a whole.
- Describe how complex characters develop, interact with other characters, and advance the plot or develop the theme of a story.
- Analyze characters' motivations as they are expressed in literature.
- Recognize and describe the effect of sensory language in a text.
- Interpret figures of speech and analyze their role in a text.
- Analyze the use of figurative language to convey meaning and establish mood and tone.
- Evaluate the effect of voice, tone, and imagery on a literary text.
- Evaluate the connection between forms of narration and tone in fiction.
- Recognize structural and graphic elements used in poetry.
- Analyze a poem to describe its tone, sensory language, theme, and the effect of its prosody, poetic devices, and graphic elements.
- Understand the characteristics of different forms of poetry.
- Make inferences about a poem based on its form.
- Write a poem with a specific form using a variety of poetic techniques.

Unit 5

- Understand the elements of a narrative and how they interact.
- Analyze a short story for its use of the elements of a narrative.
- Develop and organize an engaging plot, including conflicts and resolutions, for a fictional narrative.
- Create and develop interesting and believable characters.

- Use indirect characterization to reveal information about characters.
- Recognize how the point of view of a story shapes its narration.
- Write a narrative using a specific point of view.
- Establish a theme for the written narrative.
- Use narrative techniques, such as dialogue, suspense, and internal monologue, to enhance the plot of a narrative.
- Revise, proofread, edit, and publish a fictional narrative.
- Revise writing in response to feedback from peers.
- Understand and recognize the elements of a script.
- Write a script with an explicit or implicit theme and details that convey the mood and tone.
- Include the elements of dialogue, stage directions, a character list, and a description of the setting in the written script.

Unit 6

- Identify the forms, types, and purposes of nonfiction texts.
- Explain how a controlling idea is developed throughout a text and identify the details that support the controlling idea.
- Discuss the organizational pattern of a nonfiction text.
- Read nonfiction texts and describe the author's diction and tone.
- Identify and discuss the use of rhetorical devices in nonfiction texts.
- Analyze the use of satire in nonfiction texts.
- Identify types of evidence used in nonfiction texts.
- Discuss the use and effectiveness of rhetorical appeals in nonfiction texts.
- Explain the difference between a summary and a critique.
- Read a critique and identify substantiated and unsubstantiated opinions.
- Understand the purpose and characteristics of an analytical essay.
- Analyze the literary elements in a short story and write an analytical essay, using details and quotations from the story as proof.
- Plan, draft, revise, edit and proofread, and publish an analytical essay.
- Read and compare speeches delivered during similar historical events.
- Analyze rhetorical devices and appeals used in a speech.
- Evaluate the diction and tone of a speech.
- Identify the characteristics and components of a procedural text.
- Read and follow a procedural text and evaluate its effectiveness.
- Complete work-related tasks, such as filling out a job application and writing an application e-mail.
- Use appropriate diction and tone in communication with others in the workplace.

Unit 7

- Understand how bias is indicated in a text.
- Analyze a written text for bias.
- Describe the impact of loaded words on a text.

- Understand basic principles of media construction.
- Discuss the effects of media messages on society.
- Analyze media messages for bias.
- Explain the impact of visual and sound techniques on media messages.
- Describe the characteristics of a persuasive text.
- Examine persuasive arguments and the evidence given to support them.
- Evaluate counterarguments and the reasons given to refute them.
- Read and analyze persuasive texts to evaluate their claims, arguments, and evidence.
- Analyze a persuasive text for the use of rhetorical and logical fallacies.
- Choose a controversial topic about which to write a persuasive or argumentative essay.
- Develop a thesis statement that reflects a clear position on a controversial issue.
- Respond to counterarguments with reasons and evidence.
- Use appropriate appeals to convince the audience to accept a certain viewpoint.
- Prepare and deliver a persuasive speech.
- Evaluate a persuasive speech delivered by another student.

Unit 8

- Understand how research writing differs from other types of writing.
- Explain the steps of the research writing process and develop a plan for research writing.
- Select an appropriate topic and refine it to have a specific focus.
- Formulate a major research question to guide and focus research.
- Locate and evaluate sources for research.
- Use library and internet search tools to locate appropriate sources for research.
- Keep track of sources used for research by noting the bibliographic information for each source consulted.
- Take notes from sources by paraphrasing, summarizing, and quoting information.
- Avoid plagiarism in gathering information from sources.
- Use parenthetical documentation to identify the source of information within a research paper.
- Write a thesis statement that states a specific claim and reflects the main idea of the research paper.
- Organize information gathered from research into main points, sub points, and details by creating an outline.
- Create a works-cited list using correct MLA documentation style.
- Write a rough draft of a research essay, following a logical progression, incorporating information gathered from research, and using parenthetical documentation.
- Revise and edit the rough draft after gaining helpful feedback from peers.
- Use MLA style to format the research paper.
- Publish the research essay after all necessary changes and revisions have been made.
- Prepare a multimedia presentation about the research topic.

- Follow and give complex oral instructions to perform specific tasks.
- Present a multimedia presentation to a group of students.

Unit 9 – I Am Malala

- Recall characteristics and conventions of drama.
- Recognize how themes and plots are synthesized into modern stories.
- Analyze context for meaning in a drama and make inferences.
- Recognize characteristics and conventions of Elizabethan drama.
- Recall characteristics of realism and modernism.
- Read for details and analyze the meaning of language in a play.
- Analyze and compare dramatic elements in a farce.
- Refer to text evidence for meaning and details.
- Analyze the cultural setting of an autobiography.
- Read for important details.
- Write a personal essay using problem/solution organization.

Unit 9 – TKMB

- Recall characteristics and conventions of drama.
- Recognize how themes and plots are synthesized into modern stories.
- Analyze context for meaning in a drama and make inferences.
- Recognize characteristics and conventions of Elizabethan drama.
- Recall characteristics of realism and modernism.
- Read for details and analyze the meaning of language in a play.
- Analyze and compare dramatic elements in a farce.
- Establish purpose for reading a specific text.
- Use context and a dictionary to determine word meanings.
- Examine the cultural setting of a novel.
- Recognize how situations in a plot add suspense.
- Analyze figurative language.
- Make inferences based on evidence.
- Write a personal essay using problem/solution organization.

Unit 10 – I Am Malala

- Evaluate text structures for their purposes.
- Analyze an author’s voice and tone.
- Identify motifs that contribute to the theme and mood.
- Examine character traits and motives.
- Understand Pakistani culture and its effects.
- Freewrite for a set time, writing as a fictional character.
- Use text evidence to support inferences.
- Identify details that support main ideas.

- Compare information from multiple sources and make inferences.
- Engage in consensus building and respectful discussions.
- Synthesize information from multiple texts.
- Write an interpretive conclusion about a current event.

Unit 10 – TKMB

- Use context and resources to determine word meanings.
- Analyze how characters develop over the course of a text.
- Summarize and paraphrase main ideas.
- Recognize parallel plots in a novel.
- Use text evidence to support main ideas and inferences.
- Analyze poems for figurative language and meaning.
- Compose an interpretive essay.
- Identify an analogy and persuasive appeals.
- Understand important details and foreshadowing.
- Analyze how events in parallel plots work together.
- Describe the historical background of a setting.
- Make inferences using supporting details.
- Work collaboratively and reach a goal.

English III – 2nd Edition

Unit 1

- Analyze word meanings—origins, foreign words, figurative language, connotative, denotative meanings, and dialects—by using affixes, context, dictionaries, and other references to determine word meanings.
- Study Native South American literature; select a book, determine genre structures, establish purpose, generate questions, and read for sustained periods.
- Interact with text by note taking, annotating, illustrating, making mental images, and free writing; describe connections to self-selected text using a variety of phrases and clauses.
- Demonstrate knowledge of and analyze historical context of Native-American legends and American Revolutionary War literature including the Declaration of Independence.
- Evaluate for the main ideas; paraphrase and summarize; make inferences, compare genres, and use evidence to support understanding.
- Write commentaries, making connections to self and community, and practice using appropriate vocabulary, structures, and grammar rules.
- Interpret explicit and implicit meanings, and evaluate for cause and effect.
- Examine Colonial-American literature and historical context; make inferences; use text evidence in short-answer responses; evaluate and defend an author's claims.
- Analyze and make inferences of how an author's writing style, including sarcasm and humor, contributes to the tone of a text or implies different meanings.
- Demonstrate knowledge of test-taking tips.

Unit 2

- Read and examine ideas in pre-Civil War literature.
- Analyze how genre structures reveal the setting.
- Identify historical and social contexts.
- Interpret the mood of a text.
- Distinguish text features.
- Determine the author's point of view and how it affects the author's purpose and message.
- Analyze different perspectives and respond thoughtfully.
- Recognize bias in a point of view or perspective.
- Determine main ideas and make inferences.
- Interact with text and find evidence for explicit and implicit meanings.
- Interpret figurative language, imagery, and idioms.
- Analyze meanings in irony, understatement, and overstatement.
- Use figurative language in writing.
- Identify and analyze the use of rhetorical devices.
- Write an analogy.
- Plan a narrative by reading and taking notes.
- Develop a focused and structured draft.

- Organize with purposeful structure including a conclusion.
- Identify and use standard English conventions: complex and compound sentences and correct comma usage.
- Edit drafts for commas, semicolons, and colons.
- Recognize and use consistent, appropriate verb tense and agreement.
- Apply capitalization rules.
- Combine and shorten sentences for sentence variation.
- Revise drafts for clarity, organization, sentence fluency, and verb usage.
- Edit drafts for punctuation, spelling, capitalization, and word choice.
- Peer-review narrative and collaborate on scoring; publish.

Unit 3

- Recognize the types and purposes of informational texts and essays.
- Recognize a good thesis statement.
- Determine what kind of organization to use for subject matter.
- Analyze media for purposes and organization of information.
- Analyze expository text for clear arguments, premises, and conclusions.
- Discern the application of constitutional principles and use of reasoning.
- Synthesize information to create new understanding.
- Draw evidence from informational texts to support analysis and reflection.
- Determine the meaning of technical words.
- Analyze for structural elements of expository text.
- Write an expository essay with an anecdote to support a thesis.
- Evaluate the characteristics and effectiveness of the structure an author uses in an argument.
- Draw evidence from informational texts to support analysis and reflection.
- Write an opinion that defends an author's claim using relevant text evidence.
- Determine the meanings of foreign words.
- Determine if arguments are convincing and persuasive.
- Compose informational texts using genre characteristics and craft.
- Analyze a criticism and a rhetorical analysis for genre characteristics and craft.
- Interpret figures of speech and their effects.
- Use standard English conventions such as apostrophes, commas, dashes, ellipses, and hyphens.
- Understand that usage can change over time and varies in different reference material.
- Revise drafts for parallel structure, organization, and sentence fluency.
- Revise drafts for clarity, development, organization, style, diction, and sentence fluency, including parallel structure.
- Use appropriate syntax to clarify the relationships among complex ideas in a sentence.

Unit 4

- Demonstrate knowledge and the purposes of fiction.
- Recognize the structures of fiction that advance the plot, such as setting, conflict, climax, suspense, and foreshadowing.
- Analyze an author's choices concerning perspective and characterization.

- Relate ideas to personal experience and discuss.
- Analyze historical and cultural ideas.
- Analyze genre characteristics.
- Determine the denotative and connotative meaning of words and figurative language.
- Analyze genre structures of fiction: plot, character interactions, and the effect of foreshadowing.
- Use context clues and a dictionary to check the inferred meaning of words.
- Analyze themes and moral dilemmas in fiction.
- Summarize parts of a story.
- Analyze elements of fiction and advancement of the plot.
- Write a plot summary and brainstorm for a similar plot structure.

Unit 5

- Recall ideas in historical American culture, literary movements, and poetry.
- Interpret and analyze diction, and determine nuances in vocabulary and imagery.
- Compare characteristics of poetry and prose; themes, styles, and audience.
- Analyze historical cultural conflicts caused by the American Revolution.
- Write an opinion relating past events to current events.
- Recall characteristics and ideas of literary movements.
- Make inferences and comparisons of figurative language and controlling images.
- Make inferences about the structure and elements of poems; paraphrase a poem.
- Collaborate and make decisions.
- Identify characteristics of literary movements and make inferences about poems.
- Analyze controlling images, effects, mood, and figurative language that create meaning.
- Choose a literary movement in poetry, and write a poem with those characteristics.
- Plan a draft, develop a thesis, and compose an analytical interpretive essay using genre characteristics and craft.

Unit 6

- Identify periods of American, British, and world drama.
- Establish purposes and make predictions concerning a play.
- Make inferences, draw conclusions, and provide evidence.
- Explain analogies and symbols and how they develop the plot.
- Research the meaning of foreign words and names.
- Analyze a graphic representation and translate.
- Analyze dramatic elements, cultural context, and moral dilemmas.
- Relate the setting and theme to historical culture.
- Analyze archetypes, themes, symbols, and allusions.
- Relate elements of classical literature to 20th century plays.
- Analyze how an author’s point of view affects the plot.
- Distinguish how point of view relates to theme and plot.
- Analyze diction, figurative language, and other devices for comedy.
- Analyze characters and text structures, and relate classical works to 21st century films.

- Analyze how tone, mood, parallel structure, and overstatements create meaning.
- Relate themes to common world experiences and to different historical periods.
- Analyze media and how new media affects literary and cultural changes.

Unit 7

- Describe American literary periods and forms of the fiction genre.
- Determine main ideas, summarize, and make inferences about story elements.
- Determine the meanings of English and foreign words.
- Analyze the effects of imagery and figurative language.
- Evaluate details and structures in a story and make predictions.
- Evaluate details, key ideas, structures, and figurative language.
- Make inferences about setting, themes, and ideas.
- Relate ideas to personal experiences.
- Relate ideas to personal experiences and current events.
- Write a script for an act in a play that introduces a theme.
- Make inferences about setting, themes, and ideas.

Unit 8

- Begin the process of writing a research paper and formulate an idea.
- Research, summarize, organize, and evaluate evidence.
- Take notes and structure ideas on a graphic organizer.
- Formulate an idea into a research question and develop a personal plan.
- Read sources; write notes, summaries, quotations, commentaries, and an outline.
- Evaluate sources; write parenthetical citations and a works-cited page.
- Make a research plan; analyze and modify the research plan.
- Compose an argumentative research paper with a clear thesis, transitions, rhetorical devices, and counterarguments.
- Revise and edit a paper after feedback and publish a final draft.
- Analyze technical information or statistics and translate into text.
- Analyze how ideas develop over the course of a text and how an author uses sources.
- Analyze the clarity of a procedural text; participate collaboratively and evaluate the group’s work.

Unit 9

- Identify types and purposes of work-related documents.
- Practice e-mail etiquette and write an e-mail.
- Identify and apply business professionalism.
- Analyze and write a proposal.
- Evaluate contracts, their purposes, and their issues.
- Analyze a procedural document and formatting.
- Evaluate documents for graphics and meanings.
- Write a procedural document with formatting
- Evaluate and synthesize technical sources.
- Summarize and analyze a nonfiction text.

- Make connections to personal experiences and ideas in a text.
- Recognize helpful career planning and interview skills.
- Create a resumé and a cover letter.

Unit 10

- Evaluate different cultural views in media vs. traditional texts.
- Analyze for objectivity, formality, and tone for different audiences and purposes.
- Identify and practice good discussion, listening, and teamwork skills.
- Follow complex directions, evaluate a procedure, and ask questions.
- Identify types of speeches and presentations skills.
- Analyze an animated video debate for persuasion and presentation.
- Analyze contemporary political debates for logical fallacies.
- Evaluate a speaker's message, tone, and perceived audience.
- Write an outline and draft of an analytical essay.
- Identify types of presentation media.
- Analyze, create, present, and evaluate multimedia presentations.
- Summarize, analyze, and make inferences about ideas in nonfiction.
- Recognize propaganda and the influence of the media.
- Analyze a speech for clarity, coherence, diction, and tone.

English IV – 2nd Edition

Unit 1

- Use prereading and annotating skills to comprehend a text.
- Analyze a text for purpose, theme, and genre.
- Use context, connotation, and tone to interpret meaning.
- Identify verbal irony in a text.
- Recognize word origins and dialect.
- Analyze a text for word meanings and important details.
- Evaluate how an author's style contributes to mood, voice, and tone.
- Analyze a text for historical context, and formal or informal writing.
- Analyze an author's purpose and message.
- Paraphrase and summarize texts and events.
- Use acquired content and academic vocabulary.
- Make inferences, connections, and comparisons.
- Discuss ideas and draft a personal essay that makes connections to a text.
- Edit and revise for subject-verb agreement and other writing conventions on a final draft.
- Use a spelling and grammar function on a word processing document.

Unit 2

- Identify fiction genres and thematic development.
- Make inferences about themes in situational irony and paradox.
- Use text evidence and summarize a short story.
- Determine what is left uncertain in a short story.
- Use text evidence to support main ideas, provide details, and make inferences.
- Make inferences about the setting, characterization, and actions in a drama.
- Evaluate how the historical and social context of a setting influences a story.
- Evaluate the author's purposes and messages within a text.
- Identify the elements of a plot.
- Plan a fiction story.
- Recognize how the relationships among dramatic elements advance a plot.
- Use foreshadowing and suspense to create a mood in a story.
- Revise a fiction narrative using engaging and precise language.
- Use commentary and reflection with narration and dialogue.
- Edit for writing conventions, using hyphens, dashes, and ellipses correctly.
- Publish a story for sharing and making comments.

Unit 3

- Analyze word play, symbolism, allusions, ideas, and theme.

- Identify the effect of cultural and historical setting in advancing a plot.
- Read a play for plot elements, details, and irony.
- Identify and analyze types of figurative language.
- Identify and analyze elements such as script features and actors' speeches.
- Analyze the resolution of a play.
- Analyze for motifs, archetypes, and other dramatic elements.
- Make connections of ideas in texts to situations in society.
- Write an analytic response using text evidence.
- Develop a focused and coherent essay in a timed situation.

Unit 4

- Characterize the culture and literature of the Old English period.
- Connect ideas in ancient literature to present-day literature.
- Analyze how Middle English literature expresses its culture and themes.
- Recognize how historical setting influences characterization.
- Analyze literary devices such as symbolism and allegory.
- Identify ideas of humanism and realism in Renaissance art.
- Evaluate how meaning and tone are expressed by an author.
- Relate how new ideas changed literature in the Romantic period.
- Recall the historical significance of the Victorian period.
- Analyze how images and forms in poetry give meaning.
- Determine how figurative and connotative meanings influence tone.
- Determine the audience of a Modern period text.
- Write a characterization dealing with a British period idea or event.

Unit 5

- Analyze poetic forms and ideas of Jewish, Greek, and Chinese literature.
- Evaluate how historical cultures and settings affect literature.
- Identify the forms, ideas, and themes in poetry of the Middle Ages.
- Analyze the Persian poetry of Ferdowsī and Rūmī.
- Critique poetic elements and a Shakespearean sonnet.
- Compose an original poem.
- Analyze images and figurative language in Aztec poetry and Hindustan legends.
- Recognize and analyze poetic movements and styles in Hispanic poetry.
- Analyze American poetry of the Romantic, Transcendentalist, and New American literary periods.
- Identify characteristics of the Modernist poetry movement.
- Make inferences about the structures and elements of poetry.
- Analyze controlling images and figurative language that create meaning.
- Compose an analytical essay using genre characteristics and craft.
- Develop a thesis with supporting paragraphs as evidence.
- Revise and edit an essay using clear organization.

Unit 6

- Distinguish essay types and appropriate thesis statements.
- Identify and use appropriate organizational structures and transitions.
- Identify rhetorical appeals and logical fallacies.
- Critique the characteristics and elements of an argumentative essay.
- Analyze a United States government foundational argument.
- Evaluate ideas and elements of a political argument.
- Evaluate a Supreme Court decision concerning a law.
- Analyze the arguments of a current political speech.
- Research and write an argumentative essay.

Unit 7

- Brainstorm by having a discussion.
- Determine audience and purpose.
- Research and analyze sources of evidence.
- Organize information and formulate a research question.
- Research and summarize information.
- Evaluate evidence and avoid plagiarism.
- Critique your research plan and make an outline.
- Use a variety of sentence structures and rhetorical devices.
- Write a draft and include counterarguments.
- Write an introduction and conclusion.
- Continue writing a draft with counterarguments and editing.
- Use different kinds of sentence structures with correct punctuation.
- Recognize and use foreign words and phrases.

Unit 8

- Select a book, begin reading, and plan for a book report.
- Define the purpose of satire and parody.
- Identify types of satire and representative works.
- Analyze ancient poetry for meaning and satire.
- Identify correct usage of new vocabulary.
- Evaluate how an author exposes the human condition in fiction.
- Analyze aphorisms and use of a hoax.
- Evaluate a parody for stereotyping.
- Evaluate the historical and social context of a parody.
- Evaluate a literary analysis essay of a satire.
- Identify punctuation rules and use correct punctuation.
- Revise, edit, and submit a book report.

Unit 9

- Identify types of speeches and political persuasions.
- Evaluate and discuss a political speech.
- Analyze an inaugural address for purpose, audience, and style.
- Evaluate the meaning and the mood of a text.
- Analyze an inaugural speech to understand the historical context.
- Evaluate a speaker's point of view in a historical context and situation.
- Identify effective discussion and presentation skills.
- Present a persuasive speech to an audience and answer questions.
- Critique a persuasive speech for appeals and structure.
- Revise and edit a motivational speech.
- Plan, draft, revise, and edit a rhetorical analysis essay.

Unit 10

- Critique a business e-mail.
- Identify persuasive work-related documents.
- Analyze a proposal for information, clarity, and professionalism.
- Evaluate and synthesize technical sources.
- Create a cover letter and a resumé.
- Analyze the organization, meaning, and use of graphics in a document.
- Distinguish between good and bad job interview skills.
- Engage in discussion, participate collaboratively, and evaluate one another.
- Follow and give complex instructions and ask pertinent questions.
- Analyze the ideas and details of an informational text.
- Summarize and evaluate ideas in an informational text.
- Recall grammar terms and the changes of derivational morphemes.
- Acquire college-level words and understand their grammatical usage.

Creative Writing

Unit 1

- Define and understand the creative and imaginative writing process.
- Identify specific audiences.
- Learn how to target specific audiences through writing.
- Identify the different elements that make up a piece of writing.
- Utilize proper form and structure.
- Understand and implement literary and rhetorical devices.
- Recognize various writing purposes: expressive, informative, and persuasive.

Unit 2

- Define and understand fiction as a genre of creative writing.
- Identify different types of fiction.
- Become familiar with various texts.
- Become familiar with the short story.
- Understand how to implement different points of view.
- Understand and implement different forms of narration.
- Utilize figurative language.
- Utilize literary devices.

Unit 3

- Define and understand poetry as a genre of creative writing.
- Understand and implement meter.
- Understand and implement rhyme scheme.
- Identify different types of poetry.
- Become familiar with various texts.

Unit 4

- Understand dramatic format.
- Understand dramatic devices.
- Define and understand drama as a genre of creative writing.
- Identify different types of drama.
- Become familiar with the difference between comedy and tragedy.
- Become familiar with plays by different playwrights.

Unit 5

- Define and understand the creative essay as a genre of creative writing.
- Identify different types of creative essays.

- Become familiar with various texts.
- Understand the importance of the personal experience as it relates to writing.

Unit 6

- Conceptually understand the fundamentals of practicing creative writing.
- Practice with different points of view.
- Practice exercises with different focuses.
- Practice with figurative language.
- Recognize the significance of reading as it pertains to creative writing.

Unit 7

- Practice with meter.
- Practice with rhyme scheme.
- Understand the content within a poem.
- Proof, revise and edit a poem.
- Practice exercises with different focuses.
- Understand plagiarism and how to avoid it.

Unit 8

- Become familiar with utilizing format.
- Gain enriched experience with character development.
- Improve scene writing through dramatic scene exercises.

Unit 9

- Polish experience with direction.
- Understand the significance of direction, voice and focus.
- Practice essay writing through use of exercises.
- Practice through utilizing the personal experience in a way that is accessible to an audience.

Unit 10

- Identify, formulate and polish a focused personal voice/style.
- Determine a concentration.
- Create a Master Creative Writing Project.
- Revise the Master Project.

Literary Genre

Unit 1

- Use nouns and pronouns effectively.
- Identify the different types of nouns and pronouns.
- Correct problems with subject-verb agreement.
- Identify the principal parts of regular and irregular verbs.
- Write sentences with consistent verb tenses.
- Correctly use adjectives and adverbs in sentences.
- Write sentences with logical comparisons.
- Understand and identify the functions of verbals and verbal phrases in sentences.
- Identify the functions of prepositional and appositive phrases in sentences.
- Distinguish a subordinate clause from an independent clause.
- Identify the functions of subordinate clauses in sentences.
- Identify subordinating conjunctions and relative pronouns in sentences.
- Identify sentences as simple, compound, complex, or compound-complex.
- Combine simple sentences into compound or complex sentences.
- Use correct capitalization and punctuation.
- Recognize and correct errors in capitalization and punctuation.
- Identify traits of good writing.
- Understand how parallelism, sentence variety, and precise and vivid diction contribute to a well-written text.

Unit 2

- Understand the difference between similes, metaphors, figurative speech, hyperbole, imagery, and personification.
- Analyze the diction and syntax of a text.
- Distinguish between denotations and connotations of words.
- Describe the effect that diction and syntax have on the mood and tone of a text.
- Define and understand the purpose of irony.
- Identify figurative speech and various rhetorical devices within a text.
- Analyze how rhetorical devices contribute to the overall meaning of a text.
- Explain plot, character, setting, and theme.
- Describe the five main conflicts that occur in literature.
- Understand and identify theme.
- Analyze symbolism and recognize common allusions within literary works.
- Define and identify the five major literary forms.
- Describe the main fiction and nonfiction literary genres.
- Recognize the similarities and differences among literary genres.
- Analyze how emergent technology has influenced literature.

Unit 3

- Understand how archetypes are used in literature and distinguish between common archetypal characters.
- Identify specific examples of archetypes from various texts.
- Describe the importance of historical context in literature.
- Understand the significance of Geoffrey Chaucer's The Canterbury Tales.
- Analyze the first part of The Canterbury Tales' "General Prologue."
- Learn vocabulary through context clues.
- Identify and describe archetypes within The Canterbury Tales.
- Discuss how tone, diction, and syntax are used to describe characters.
- Determine if historical context impacted Chaucer's work.
- Analyze the messages that Chaucer sends to the reader though his characterization of archetypal or nonarchetypal figures.
- Analyze literary devices within "The Nun's Priest's Tale."
- Describe the difference between a parody and an allegory.
- Understand the importance of being familiar with The Canterbury Tales as an aid in analyzing texts from a variety of literary genres.
- Identify the moral lessons within "The Nun's Priest's Tale."

Unit 4

- Identify the common elements of mythology, including archetypal themes.
- Understand why themes that cross texts and cultures are important.
- Read and analyze a variety of myths from different cultures.
- Distinguish between Greek, Roman, Norse, and Native American mythologies.
- Understand the difference between myth and legend.
- Identify the different types of legends that exist.
- Describe the archetypal hero's journey and how it relates to the genre of legend.
- Read and examine multiple examples of legend.
- Compare and contrast fables with other literary genres.
- Understand the significance of fables.
- Examine selections of fables for context.
- Describe the elements that define a text as a fairy tale.
- Identify the key contributors in the evolution of fairy tales.
- Analyze a fairy tale story utilizing the literary devices learned thus far.

Unit 5

- Define surrealism and understand how it relates to literary fantasy.
- Identify the typical characteristics of texts within the fantasy genre.
- Know the origins of fantasy and describe the strategies commonly used to create a well-structured fantasy text.
- Analyze a selection of text for its merit as a fantasy work.

- Understand how science fiction emerged as a genre.
- Describe the typical characteristics of texts within the science fiction genre.
- Identify ideas discussed within science fiction works, such as The Time Machine.
- Write an analytical essay on the elements of a science fiction short story.
- Define the characteristics of gothic literature.
- Identify key authors in the gothic genre.
- Understand how authors utilize rhetorical devices to create suspense.
- Analyze an excerpt of Dracula as an important piece of gothic horror.

Unit 6

- Identify the characteristics and structure common to short stories.
- Understand how authors create characterization in their stories.
- Describe the contributions Edgar Allan Poe made to short stories.
- Relate Edgar Allan Poe's background to his literary style.
- Read and analyze Edgar Allan Poe's "The Masque of the Red Death."
- Describe Ambrose Bierce's writing style and the contributions he made to short stories.
- Define and give examples of aphorisms.
- Compare verbal, situational, and dramatic irony.
- Analyze Ambrose Bierce's "An Occurrence at Owl Creek Bridge."
- Identify key aspects of the 1920s, including bobbing one's hair.
- Understand the contributions F. Scott Fitzgerald made to short stories.
- Describe the importance of dialogue in F. Scott Fitzgerald's stories.
- Analyze F. Scott Fitzgerald's "Bernice Bobs Her Hair."

Unit 7

- Identify the characteristics of dramatic works and the aspects needed to create a well-constructed drama.
- Describe the difference between a monologue and a soliloquy.
- Understand the importance of stage directions in the creation of a script.
- Create an adapted screenplay from an excerpt of "Bernice Bobs Her Hair."
- Understand the extent and impact of Shakespeare's work.
- Describe the difference between a tragicomedy and a comedy.
- Identify themes common to comedic plays.
- Analyze scenes from Shakespeare's Much Ado About Nothing.
- Describe common characteristics of tragedies.
- Identify themes common to tragic plays.
- Understand the difference between a tragedy and a melodrama.
- Analyze scenes from Shakespeare's Hamlet.

Unit 8

- Identify the importance of metrical pattern and rhyme scheme in poetry.
- Describe the different forms of poetry and how they are used.
- Recognize nature as a major theme in poetry.
- Analyze poems dealing with the theme of nature.
- Identify the speaker in various poems.
- Describe the backgrounds of various poets.
- Understand how certain literary devices, such as quatrains, enjambment, extended metaphor, and concrete poetry, are used to enhance a poem.
- Compare and contrast two poems that deal with the same theme.
- Analyze poems dealing with themes of death, loss, and the passing of time.
- Recognize the endless possibilities of using poetry to express love.
- Analyze poetry dealing with the theme of love and the freedom of choice.
- Define assonance and understand its purpose.
- Describe the characteristics and purpose of nonsense poems.
- Identify authors who wrote nonsense poems.

Unit 9

- Describe the characteristics of good speeches and good speakers.
- Identify the different appeals used in creating a persuasive text.
- Recognize common fallacies that appear within persuasive texts.
- Analyze speeches for rhetorical devices and overall effectiveness.
- Describe the characteristics that make up an effective persuasive essay.
- Identify the difference between a clear and unclear point of view within a persuasive essay.
- Define parallel structure and understand how it is used in literature.
- Analyze essays for rhetorical devices and effectiveness.
- Define journalism and describe the goals of a journalist.
- Understand the importance of media literacy.
- Identify bias using loaded words and subtext.
- Analyze articles for content and bias.
- Write a persuasive essay regarding bias in journalism.

Unit 10

- Describe the characteristics and history of biographies.
- Identify key figures in the growth of biography as a genre.
- Compare and contrast biographies and autobiographies.
- Read and analyze selections that offer different perspectives on the life of Frederick Douglass.
- Identify key changes that occurred during the Restoration Era.
- Describe the characteristics of historical nonfiction.

- Understand the difference between diaries, journals, memoirs, and autobiographies.
- Explain who Samuel Pepys is and why he is important to the diary genre.
- Know what a well-written historical fiction entails.
- Read and analyze selections that offer different perspectives on the Great Fire of London.
- Describe the contents of Poor Richard's Almanack.
- Read and analyze a biographical selection about Benjamin Franklin.
- Identify Franklin's character through the use of his autobiography.
- Define and describe the characteristics of literary nonfiction.
- Read and analyze a selection of literary nonfiction related to Franklin.

3rd Grade Oklahoma History

Unit 1

- Examine the job of historians.
- Apply map skills to interpret information on maps.
- Identify geographic words such as latitude, longitude, hemispheres, time zones, and seasons.
- Use grids to find locations on a map.
- Describe the climate and plants in the Great Plains and Cross Timbers.
- Identify and describe Oklahoma's water and physical landforms.
- Identify unique places in Oklahoma including the Great Salt Plains and the Black Mesa.

Unit 2

- Describe the purpose of Celebrate Freedom Week.
- Identify ways citizens can help the government.
- Identify examples of good citizenship.
- Describe the meaning of Oklahoma symbols.
- Examine the role of local governments.
- Describe the role of each of the three branches of Oklahoma government.
- Survey the national contributions of Oklahomans.
- Identify the location and characteristics of Oklahoma's major cities.

Unit 3

- Examine the role of archaeologists.
- Investigate the life and culture of Oklahoma's first people.
- Describe early journeys by Europeans and Americans into Oklahoma.
- Analyze the causes and lasting effect of the Trail of Tears.
- Identify Civil War events that took place in Oklahoma.
- Explain how cowboy culture developed in Oklahoma.
- Analyze the effect of Manifest Destiny on Oklahoma and Native Americans.
- Research and prepare a report about Native Americans in Oklahoma.

Unit 4

- Survey events leading to the creation of the Oklahoma Territory and statehood.
- Compare and contrast points of view concerning the Boomer Movement.
- Describe pioneer life on the Great Plains.
- Describe how the world wars and the Dust Bowl shaped Oklahoma's history.

- Explain how the Civil Rights movement helped protect the rights of blacks and the Native American in Oklahoma.
- Describe recent events in Oklahoma history such as the Oklahoma City bombing.
- Analyze the effect of changes to Oklahoma's environment such as irrigation.
- Create a timeline of Oklahoma history.

Unit 5

- Analyze the effect of economic activities in Oklahoma.
- Survey the major economic industries in Oklahoma.
- Identify culturally and historically important locations in Oklahoma.
- Identify the effect of highways on the growth and development of Oklahoma.
- Examine the uniqueness of Oklahoma's central location.

Unit 6

- Describe the contributions of Oklahoma's Universities.
- Survey holidays celebrated in Oklahoma and the United States.
- Recognize the cultural contributions of Oklahoma artists, actors, writers, and dancers.
- Describe the accomplishments of Oklahoma athletes and sports teams.
- Explain how Oklahomans live out the "Oklahoma Standard."
- Research the accomplishments of a famous Oklahoma citizen.

Kindergarten Social Studies

Unit 1

- Community differences
- Wants and needs
- Meeting wants and needs
- Making a community
- Living within a number of communities
- Community differences

Unit 2

- Jobs help people meet needs.
- People have jobs.
- Jobs are found at home and in school.
- Jobs are in the community.
- Helpers keep communities safe.
- Helpers keep our community healthy.
- Helpers keep our community working well.
- You can earn money doing a job.
- Volunteers help the community.
- Jobs and roles you can do.

Unit 3

- Culture similarities
- Culture differences
- Kinship
- Family similarities and differences
- Traditions
- Family tradition togetherness
- Religion and culture
- Family traditions and family religion
- Unique family traditions
- Family tradition similarities and differences
- Thanksgiving traditions

Unit 4

- Map symbols
- What a map shows

- Where a place is
- Location: over and under
- Location: left and right
- Water on a globe
- Land on a globe
- When maps are helpful
- What a globe is used for
- What Christopher Columbus did

Unit 5

- Landforms
- Bodies of water
- Natural resources
- Things from natural resources
- Kinds of weather
- The seasons
- Different kinds of climates

Unit 6

- Reasons for rules
- Consequences for not following the rules
- Community rules
- Differences between rules and laws
- Consequences for not following laws
- Authorities of rules and laws

Unit 7

- Good leaders
- Leaders in my home
- Leaders in my school and community
- Leaders in my home
- Leaders in my school and community
- George Washington the leader
- How we honor George Washington
- George Washington the leader
- How we honor George Washington

Unit 8 –Texas

- Names of patriotic symbols

- Meaning of patriotic symbols
- The flag of the United States
- The Pledge of Allegiance
- Names of state symbols
- Why symbols are important
- About Stephen F. Austin
- About José Antonio Navarro
- José Antonio Navarro helped

Unit 8 –US

- Names of patriotic symbols
- Meaning of patriotic symbols
- The flag of the United States
- The Pledge of Allegiance
- Names of state symbols
- Why symbols are important

Unit 9

- Why customs are important
- Examples of customs
- Patriotic holidays in the United States
- Independence Day celebrations
- Why Independence Day is celebrated
- Celebrating Veterans Day
- Telling who is a veteran
- Celebrating Presidents' Day

Unit 10

- Problems solved with technology
- Examples of technology
- Inventors and inventions
- Electricity and technology
- Technology used at home
- How technology helps at home
- Technology used at home
- How technology helps at home
- Needs met by technology
- Meanings of yesterday, today, tomorrow

Kindergarten Social Studies – 2nd Edition

Unit 1

- I will learn about the four needs of people: food, water, clothing, and shelter.
- I will learn about needs and wants.
- I will learn about how wants and needs are met.
- I will learn about communities.
- I will learn about different communities.

Unit 2

- I will learn about how people have jobs to help meet their needs.
- I will learn about jobs at home and in school.
- I will learn about jobs in the community.
- I will learn about the helpers who keep communities safe.
- I will learn about how helpers keep our community healthy and working well.

Unit 3

- I will learn about culture similarities and differences.
- I will learn about kinship and family similarities and differences.
- I will learn about traditions and how they bring families together.
- I will learn about family traditions and religion.
- I will learn about unique family traditions and how traditions are similar and different.
- I will learn about Thanksgiving traditions.

Unit 4

- I will learn about map symbols and what a map shows.
- I will learn how to describe the location of a place.
- I will learn how to describe location using location words.
- I will learn about water and land on a globe.
- I will learn what maps and globes are used for.
- I will learn about Christopher Columbus.

Unit 5

- I will learn about different types of landforms.
- I will learn about different types of bodies of water.
- I will learn about natural resources and things made from natural resources.
- I will learn about kinds of weather and the seasons.

- I will learn about different kinds of climates.

Unit 6

- I will learn about reasons for rules and about consequences for not following rules.
- I will learn about the rules in a community.
- I will learn about laws and the consequences for not following laws.
- I will learn about the people who are in charge of rules and laws.

Unit 7

- I will learn about what makes a good leader.
- I will learn about leaders in my home, school, and community.
- I will learn how voting works and why voting is important.
- I will learn about the leader George Washington and why we honor him.
- I will learn about the leaders of our country.

Unit 8 –Texas

- I will learn the names and meanings of patriotic symbols.
- I will learn about the flag of the United States and the Pledge of Allegiance.
- I will learn about why state symbols are important.
- I will learn about Stephen F. Austin and his contributions to Texas.
- I will learn about José Antonio Navarro and his contributions to Texas.

Unit 8 –US

- I will learn the names and meanings of patriotic symbols.
- I will learn about the flag of the United States and the Pledge of Allegiance.
- I will learn about why state symbols are important.
- I will learn about state symbols and why they are important.
- I will learn about animal state symbols.

Unit 9

- I will learn what customs are and why they are important.
- I will learn about patriotic holidays in the United States.
- I will learn about why Independence Day is celebrated and how we celebrate it.
- I will learn about veterans and why we celebrate them on Veterans Day.
- I will learn about how Presidents' Day is celebrated.

Unit 10

- I will learn about problems solved with technology.
- I will learn the meanings of words that describe time.
- I will learn about inventors and technology.
- I will learn about how technology in the home helps me.
- I will learn about how technology helps us at school.
- I will learn about how needs are met by technology.

1st Grade Social Studies

Unit 1

- Describe where I am.
- Identify the cardinal directions.
- Tell what a map is showing.
- Identify parts of a map.
- Use directions on a map.
- Find places on a map.
- Find my country and continent on a map.
- Practice using maps.

Unit 2

- Know about geography.
- Know about geography tools.
- Know how to use a globe.
- Tell how globes and maps are different.
- Tell the difference between oceans, lakes, and rivers.
- Know about plain, hill, mountain, and desert landforms.
- Know about the earth's natural resources.
- Know about the weather.
- Understand the four seasons.
- Know how location helps people choose shelter.

Unit 3

- Tell about George Washington.
- Tell about Abraham Lincoln.
- Tell about Harriet Tubman.
- Tell about Eleanor Roosevelt.
- Tell about Benjamin Franklin.
- Tell about American heroes.
- Tell about the past, present, and future.
- Tell how to show the past.

Unit 4

- Tell how people from the past helped our state and nation.
- Know why we need rules and laws.
- Tell how rules and laws provide security and order.
- Tell about places where rules and laws help.

- Tell who are authority figures.
- Tell why governments make rules and laws.
- Know why communities, states, and countries have governments.
- Know that the mayor, governor, and president are public officials.
- Know that the Constitution is a plan of government.

Unit 5

- Tell what a symbol is.
- Understand what patriotic symbols are.
- Tell about the Liberty Bell and the Statue of Liberty.
- Identify United States symbols.
- Tell about the American flag.
- Recite the Pledge of Allegiance to the United States Flag.
- Tell about our country's anthem.
- Tell about our country's motto.
- Tell about the Declaration of Independence.

Unit 6 - Texas

- Tell why the Alamo was important.
- Tell about Sam Houston.
- Find Texas on a map.
- Know the capital of Texas.
- Know the Texas flag.
- Tell the meaning of the Texas flag.
- Know the meaning of the pledge to the Texas flag.
- Recite the Texas Pledge of Allegiance.
- Tell the anthem of Texas.
- Tell the state motto of Texas.
- Know symbols of Texas.
- Know the meaning of Texas symbols.

Unit 6 - US

- Tell why the Alamo was important.
- Know about Sam Houston.
- Find my state on a map.
- Know the capital of my state.
- Identify my state flag.
- Know why state songs are symbols.
- Know the names of several state songs and anthems.
- Read state mottos.
- Tell the meaning of several state mottos.

- Tell examples of state symbols.
- Know the meaning of state symbols.

Unit 7

- Understand what a citizen is.
- Tell characteristics of a good citizen.
- Know good citizens who helped their nation.
- Tell how Martin Luther King Jr. and Clara Barton were good citizens.
- Tell how Eleanor Roosevelt and Frederick Douglass were good citizens.
- Tell characteristics of good citizenship.
- Understand the importance and privilege of voting.
- Know leaders in the home, school, and community.
- Tell how leaders help others.
- Tell why respect is important.
- How to read a calendar.

Unit 8

- Know what culture is.
- Tell how food and clothing are part of culture.
- Tell why culture is important.
- Know what customs are.
- Know what traditions are.
- Tell why we have customs and traditions.
- Tell what celebrations are.
- Know particular celebrations.
- Tell how we celebrate.
- Understand patriotic customs and celebrations.
- Tell patriotic customs and celebrations.
- Tell about special days for patriotic celebrations.
- Understand how special patriotic days started.
- Tell about patriotic customs and celebrations.
- Understand how to use a calendar.
- Find dates on a calendar.
- Know what folktales and legends are.
- Tell the difference between a folktale and a legend.
- Tell how folktales and legends show culture.
- Know celebrations from other cultures.
- Tell about cultural celebrations.
- Tell how holidays are celebrated.

Unit 9

- Tell what people need.
- Show ways that families meet needs.
- Tell about needs and wants.
- Show people wanting more than they can have.
- Tell why people have to make choices.
- Tell why choices must be made.
- Know how geography can affect wants.
- Tell how families make choices.
- Know what goods and services are.
- Tell examples of goods and services in the home, school, and community.
- Know how people trade goods and services.
- Tell how people exchange goods and services.
- Know what producers and consumers are.
- Tell who producers and consumers are.
- How people spend and save money.
- Know about goods and services in the home, school, and community.

Unit 10

- Tell about different kinds of jobs.
- Know tools that are used in jobs.
- Know how jobs produce goods and services.
- Learn how jobs help meet our needs.
- Identify needs that jobs help to meet.
- Know inventors who have made our lives easier.
- Tell about the contributions of inventors.
- Know what technology is.
- Tell how technology has changed the way we live.
- Learn how we use technology to communicate.
- Identify ways that technology has changed communication.
- Learn how we use technology to communicate.
- Identify ways that technology has changed communication.
- Know how technology has changed jobs.
- Tell about examples of how technology has changed jobs.

2nd Grade Social Studies

Unit 1

- Identify characteristics of a rural community and environment.
- Identify characteristics of a urban community and environment.
- Identify characteristics of a suburban community and environment.
- Examine how people meet basic needs in neighborhoods.
- Investigate the role of places in a neighborhood.
- Interpret maps using map tools.
- Demonstrate map skills by creating maps of familiar locations.
- Identify the significance of cultural traditions.
- Identify the significance of ethnic cultural traditions.

Unit 2

- Describe how the mayor and city manager help a city.
- Identify ways that the city council and city clerk help a city.
- Compare and contrast ways that city officials are chosen.
- Examine the ways that city services help a community.
- Examine the ways that city services help a community.
- Examine the ways that city services help a community.
- Identify who is or is not a citizen.
- Identify the responsibilities of citizenship.
- Describe the voting process.
- Identify ways that a citizen can be a good voter.

Unit 3

- Identify ways to practice good citizenship.
- Identify the symbols of state flags.
- Describe ways to honor your state flag.
- Compare and contrast past, present, and future.
- Identify the location of U.S. cities on a map.
- Compare and contrast U.S. cities.
- Identify the location of U.S. cities on a map.
- Compare and contrast U.S. cities.
- Identify U.S. states and their neighboring states.
- Identify Native American cultures in North America.
- Identify Native American cultures in North America.
- Identify a way Native Americans helped their community.

Unit 3 - TEXAS

- Identify ways to practice good citizenship.
- Identify the symbols of the Texas flag.
- Describe ways to honor the Texas flag.
- Compare and contrast past, present, and future.
- Identify the locations of Texas cities on a map.
- Compare and contrast Texas cities.
- Identify Mexico, the Gulf of Mexico, and states bordering Texas on a map.
- Survey representative Native American cultures in North America.
- Survey representative Native American cultures in Texas.
- Identify a way Native Americans helped their community.

Unit 4

- Describe why the 13 colonies formed the United States of America.
- Explain how the Northwest Territory became U.S. states.
- Explain how the Louisiana and Oregon territories became U.S. states.
- Explain how land in the Southwest became U.S. states.
- Create a timeline of U.S. history.
- Identify the responsibilities of a state government.
- Identify the branches of state government.
- Identify how a good citizen helped her community.
- Identify and describe the importance of state symbols.
- Identify and describe the importance of state symbols.

Unit 4 - TEXAS

- Explain how the Texas colony encouraged American immigrants to move to Texas.
- Describe the events leading to Texas independence.
- Describe the importance of the Battles of the Alamo and San Jacinto.
- Explain what a monument is and why it is important.
- Create a timeline of Texas independence.
- Identify the responsibilities of the Texas state government.
- Identify the branches of state.
- Identify how a good citizen helped her community.
- Identify and describe the importance of Texas state symbols.

Unit 5

- Explain why Americans celebrate Thanksgiving.
- Describe what life was like in the 13 colonies.
- Describe how American colonists worked to build a better community.

- Describe why and how Americans celebrate Independence Day.
- Identify how good citizens helped their communities.
- Describe how the U.S. Constitution created our government.
- Describe the role of the president and the cabinet.
- Describe the role of lawmakers and how they make laws.
- Describe how judges make decisions about the meaning of laws.

Unit 6

- Identify how the first three presidents shaped the history of our country.
- Identify how Abigail Adams and Sojourner Truth helped their communities.
- Gather facts about a president to create a poster.
- Identify landforms that settlers crossed while moving west.
- Identify events that helped make America a powerful nation.
- Identify ways that technology helped people talk to one another.
- Describe how railroads changed how Americans lived and traveled.
- Describe how George Washington Carver helped rural communities.
- Identify important 20th-century inventions.

Unit 7

- Identify U.S. states and neighboring countries on a map.
- Describe characteristics of rivers.
- Identify ways that humans use and change rivers.
- Describe different parts of America's transportation system.
- Identify landmark government buildings in Washington, D.C.
- Explain how monuments in Washington, D.C., remind us of America's history.
- Describe how the Smithsonian Institution shares and protects America's treasures.
- Explain how monuments across the country remind us of America's history.
- Identify the natural wonders found in several national parks.
- Describe how the government provides national defense.
- Identify ways that the military helps the community.

Unit 8

- Recognize national symbols and identify their meanings.
- Recognize national symbols and identify their meanings.
- Describe how songs express the love Americans have for their country.
- Identify the symbols and meanings of the U.S. flag.
- Explain why and when Americans celebrate Flag Day.
- Recall the events leading to the creation of the U.S. national anthem.
- Read and analyze "The Star-Spangled Banner."
- Describe basic U.S. flag protocol.
- Recite the Pledge of Allegiance.

- Describe how Americans honor people who helped their country on Memorial Day.
- Describe how Americans honor people who helped their country on Veterans Day.
- Identify ways that Americans helped their communities during World War II.

Unit 9

- Compare and contrast flat maps and globes.
- Identify the world's continents on a map.
- Recall facts about Earth's continents.
- Identify the location of Earth's continents.
- Recall facts about Earth's continents.
- Describe facts about Earth's oceans.
- Identify the location of Earth's oceans on a map.
- Describe facts about Earth's oceans.
- Create a map of Earth showing the location of the continents and oceans.
- Identify natural resources.
- Describe how humans find and use natural resources.
- Examine ways that humans change their environment.
- Identify resources as renewable or non-renewable.
- Describe how pollutants impact resources.
- Identify practical ways to care for natural resources.

Unit 10

- Identify characteristics of America's economy.
- Compare and contrast goods and services.
- Describe how wages encourage labor in a free enterprise economy.
- Survey ways that workers earn wages for their labor.
- Describe the relationship between producers and consumers.
- Describe how producers bring products to market.
- Identify ways that businesses and families spend money.
- Describe why spending requires self-discipline.
- Describe ways that wage earners may save money.
- Explain why everyone should save.

3rd Grade Social Studies

Unit 1

- Learn about communities.
- Learn about maps.
- Learn to use grid, landform, and transportation maps.

Unit 2

- Learn how communities adapt to and change their environment.
- Learn how communities use natural resources.
- Learn how communities can protect their environment.
- Recognize steps that can be taken to protect the environment.

Unit 3

- Evaluate methods used to study the past.
- Discover the culture and history of ancient communities.
- Compare how early communities developed around the world.
- Discover the culture and history of Native American communities.
- Learn about the impact of European settlements on native communities in the Americas.
- Recognize and relate events using a timeline.

Unit 4

- Learn how ideas such as alphabets and number systems changed and improved early communities.
- Learn how inventions and innovations helped our nation grow and communicate.
- Learn how medical and technological inventions and innovations have made communities safer and united the world on a personal level.

Unit 5

- Learn about different aspects of economy in communities.
- Learn about the role of businesses in communities.
- Learn about the economies of communities.

Unit 6

- Survey the early history of the United States.

- Identify and interpret national and state symbols.
- Examine how the government of the United States formed.
- Explain how the government of the United States works.
- Learn about the local, state, and national levels of government in the United States.

Unit 7

- Examine the structure and role of the U.S. Presidency and the executive office.
- Describe the process by which the President of the United States is elected.
- Identify current government leaders.
- Identify and contrast the roles of political parties in the United States.
- Explain the steps a bill must take to become a law.
- Survey songs that celebrate national and state heritage.
- Examine the structure and role of the U.S. Supreme Court.
- Compare checks and balances in the U.S. Constitution.
- Describe the ways that government gets and spends money.
- Outline the ways that government helps society.
- Describe the role of the United Nations.

Unit 8

- Predict future learning based on prior knowledge.
- Identify ways to be a good citizen in your community.
- Explain the relationship between cause and effect.
- Name examples of Americans who practiced good citizenship.
- Develop ideas for reducing conflict at school.
- Distinguish the difference between nonprofits and other companies.
- Identify examples of nonprofit companies.
- Compare the value of donating to various charities.
- Identify a community problem and create an action plan to solve it.

Unit 9

- Examine the different aspects of cultural heritage through food, music, and celebrations.
- Investigate examples of cultural expression through celebrations.
- Create a project illustrating the student's culture.
- Survey the role of art in culture.
- Investigate examples of cultural artistic expression.
- Examine cultural expressions in writing.
- Examine the role of memorials in a culture.

- Differentiate between story forms including legends, tall tales, myths, and novels.
- Describe the contributions to society by responsible citizens such as the four chaplains.
- Apply writing skills to create a poem.

Unit 10

- Describe how personal anniversaries and milestones are good times to celebrate.
- Categorize community holidays that celebrate people, events, and religions.
- Examine ways that birthdays are celebrated in other countries.
- Identify holidays that honor a person or group of people.
- Survey traditions of, and reasons to celebrate, holidays honoring events.
- Construct a brochure describing the traditions and characteristics of six holidays.
- Identify holidays that celebrate religious traditions.
- Survey traditions of, and reasons to celebrate, holidays honoring religious traditions.
- Create and describe a fictional holiday.

4th Grade Social Studies - Texas

Unit 1

- Identify different types of maps and globes.
- Identify and contrast hemispheres, the equator, and the prime meridian.
- Locate and employ map tools in interpreting maps.
- Compute the geographic location of places using grid maps.
- Memorize geographic landform terms.
- Compare and contrast regions of the state of Texas.
- Identify and interpret specialty maps.
- Create a landform map of North America.

Unit 2

- Discover how Native Americans, immigration, and slavery all contributed to the heritage of Texans.
- Consider theories concerning the origin of the first Americans.
- Examine prehistory aspects of Texas including dinosaurs and practices of Native Americans.
- Compose an outline summarizing key information.
- Survey the characteristics of early civilizations.
- Investigate the history and culture of the Aztec civilization.
- Design a brochure that illustrates different aspects of early Native American culture.
- Examine a Texas Native American point of view through a folk tale.
- Survey the extent of Native American tribes across North America.
- Survey, compare, and contrast the culture, economies, and governments of Texas Native American tribes.

Unit 3

- Compose a daily journal.
- Interpret timelines to better understand history.
- Recognize that discovery of the New World had a great impact on cultures around the world.
- Describe how the discovery of the New World impacted cultures around the world.
- Recognize the events leading to the fall of the Aztec Empire.
- Construct a brochure showing the cause and effect of Europeans exploring the New World.
- Describe early Spanish attempts to explore Texas and North America.
- Describe the Coronado expedition that explored Texas and the American Southwest.

- Describe the de Soto and La Salle expeditions that explored the eastern United States.
- Collect and analyze facts in order to make conclusions.
- Identify the ways that Spain colonized Texas and other parts of New Spain.
- Recognize the impact that the spread of missions had on the culture of Texas.
- Identify the contributions of the English and other countries in colonizing the New World.

Unit 4

- Summarize the reasons for and the methods by which Mexico encouraged colonization of Texas.
- Explain the empresario system that allowed many Anglo-Americans to settle in Texas.
- Identify the ways that settlers traveled to Texas.
- Describe daily life on the Texas plains for early settlers.
- Describe the events and reasons leading to the Texas Revolution.
- Outline the events of the early part of the Texas Revolution.
- Recall the events and people of the Battle of the Alamo.
- Evaluate the lasting legacy of the Alamo.
- Describe events after the Alamo leading to Texas Independence and the Battle of San Jacinto.
- Describe the events of the Battle of San Jacinto.
- Recognize the impact of the Battle of San Jacinto on U.S. history.
- Examine the life of Davy Crockett.

Unit 5

- Examine the response of the Republic of Texas to early challenges.
- Explain the significance of each one of the six flags of Texas.
- Survey the contributions of the Presidents of the Republic of Texas.
- Develop and apply skills using graphs.
- Examine the history and significance of U.S. flags.
- Explain the events leading to the annexation of Texas.
- Explain the resolution of issues that allowed Texas to be annexed.
- Describe the events leading up to and during the Mexican-American War.
- Identify the effects of the Mexican-American War on the United States and Mexico.
- Examine the lives of Texans during the mid-1800s.

Unit 6

- Explain the relationship between slavery and the mid-1800s Texas economy.
- Identify events in Texas and the United States leading up to the Civil War.
- Describe the events and impact of the Civil War on Texas.

- Recognize the States of the Union and the Confederacy.
- Examine the process and results of Reconstruction.
- Describe the events leading to the end of slavery in the Western Hemisphere.
- Identify the significance of Juneteenth celebrations.
- Explain the impact of cattle on the Texas economy in the 1800s.
- Describe the impact of forts and railroads on the growth of Texas in the 1800s.
- Describe factors leading to the growth of cities and agriculture in Texas.
- Examine the conflict between settlers and Native Americans.
- Sequence information and summarize how Texas grew during the 1800s.

Unit 7

- Describe the importance of petroleum in Texas' history and economy.
- Investigate how petroleum products have changed the lives of Texans and the world.
- Recognize the role of Texas during World War I.
- Recognize the ways inventions improved life during the early 1900s.
- Gather information about topics by using reference sources.
- Examine the impact of the Great Depression and World War II on Texas.
- Identify the role of Texas and national leaders in protecting the rights of citizens.
- Identify and apply free enterprise concepts in creating a business.
- Distinguish between primary and secondary sources.
- Recognize reasons authors create bibliographies.
- Discover the positive impact of small businesses in Texas.
- Describe the importance of industry and technology to Texas.
- Recognize the changes and challenges to agriculture in Texas today.

Unit 8

- Identify ways citizens can participate in government.
- Examine the role of local governments.
- Identify examples of good citizenship.
- Compose a letter to the student's state governor.
- Describe the role of each of the three branches of Texas government.
- Survey the contributions of Texas governors.
- Recognize and describe the importance of Texas symbols of patriotism.
- Apply chart skills in order to learn facts about the 50 states.
- Identify the origin and structure of the U.S. government.
- Explain the history and etiquette of the Pledge of Allegiance.
- Compare the founding documents of the United States.
- Apply chart skills in order to learn facts about Western Hemisphere countries.

Unit 9

- Survey the diversity of Texas' population.
- Apply skills using sources and making predictions.
- Describe the purpose of Celebrate Freedom Week.
- Analyze different points of view.
- Discover songs that express Texas culture.
- Discover foods that express Texas culture.
- Discover holidays that express Texas culture.
- Discover sports that express Texas culture.
- Discover how the arts express Texas culture.
- Discover music styles that express Texas culture.

Unit 10

- Interpret graphs and statistics that describe the growth of Texas' population.
- Explain the usefulness of a census in government planning.
- Express reasons people are willing to move to Texas.
- Describe the role of global interdependence in the Texas economy.
- Arrange story events in order by using sequencing skills.
- Describe the role of technology in creating a world economy.
- Explain Texas' leading role in world agriculture.
- Compare and contrast Texas' exports and imports.
- Describe how Texas and the United States work together with other nations.
- Categorize information using Venn diagrams.
- Examine the challenges facing developing economies.
- Survey the six elements of geography.
- Compose an essay regarding predictions about the future of life in Texas.

4th Grade US Geography

Unit 1

- Describe the five themes of geography.
- Compare and contrast the roles of geographers and cartographers.
- Describe ways that geographers gain information.
- Describe the importance of America's founding documents.
- Identify the three branches of government.
- Describe how the Pledge of Allegiance and official motto reflect patriotic values.
- Describe how the songs "Lift Every Voice and Sing" and "America the Beautiful" reflect patriotic values.
- Summarize the characteristics of the free enterprise system including risk versus reward.
- Compare and contrast the roles of historians and archaeologists.
- Explain the difference between primary and secondary sources.
- Describe the difference between myths and legends.
- Apply map tools in reading maps.
- Describe how grids, latitude, and longitude are used to locate places on maps.
- Identify different types of maps.

Unit 2

- Identify the states of the Northeast Region on a map.
- Recall facts about states in the Northeast Region.
- Identify key water sources in the Northeast Region.
- Analyze how water sources affect the geography of the Northeast Region.
- Identify key landforms in the Northeast Region.
- Describe how landforms affect the geography of the Northeast Region.
- Analyze the ways climate affects the geography of the Northeast Region.
- Identify natural resources of the Northeast Region and explain how they are used.
- Identify animals that live in habitats in the Northeast Region.
- Outline the history of the Northeast Region.
- Describe the impact of key events in Northeast Region history.
- Identify key areas of economic activity in the Northeast Region.
- Describe products and services produced in the Northeast Region.
- Identify characteristics that distinguish the culture in the Northeast Region from other U.S. regions.
- Describe traditions and destinations unique to the Northeast Region.
- Identify the food, music, art, and literature of the Northeast Region, who created them, and how they reflect the region's culture.

Unit 3

- Identify the states of the Southeast Region on a map.
- Recall facts about states in the Southeast Region.
- Identify key water sources in the Southeast Region.
- Analyze how water sources affect the geography of the Southeast Region.
- Identify key landforms in the Southeast Region.
- Describe how landforms affect the geography of the Southeast Region.
- Analyze the ways climate affects the geography of the Southeast Region.
- Identify natural resources of the Southeast Region and explain how they are used.
- Identify animals that live in habitats in the Southeast Region.
- Outline the history of the Southeast Region.
- Describe the impact of key events in Southeast Region history.
- Identify key areas of economic activity in the Southeast Region.
- Describe products and services produced in the Southeast Region.
- Identify characteristics that distinguish the culture in the Southeast Region from other U.S. regions.
- Describe traditions and destinations unique to the Southeast Region.
- Identify the music, food, and literature of the Southeast Region, who created them, and how they reflect the region's culture.

Unit 4

- Identify the states of the Great Lakes Region on a map.
- Recall facts about states in the Great Lakes Region.
- Identify key water sources in the Great Lakes Region.
- Identify the Great Lakes on a map.
- Describe how water sources affect the geography of the Great Lakes Region.
- Identify key landforms in the Great Lakes Region.
- Describe how landforms define the geography of the Great Lakes Region.
- Analyze the ways climate affects the geography of the Great Lakes Region.
- Identify natural resources of the Great Lakes Region and explain how they are used.
- Identify animals that live in habitats in the Great Lakes Region.
- Identify key events in the history of the Great Lakes Region.
- Describe the impact of key events in Great Lakes Region history.
- Identify key areas of economic activity in the Great Lakes Region.
- Describe products and services produced in the Great Lakes Region.
- Identify characteristics that distinguish the culture in the Great Lakes Region from other U.S. regions.
- Describe traditions and destinations unique to the Great Lakes Region.
- Identify the food, music, literature, art, and entertainment of the Great Lakes Region, who created them, and how they reflect the region's culture.

Unit 5

- Identify the states of the Great Plains Region on a map.
- Recall facts about states in the Great Plains Region.
- Identify key landforms in the Great Plains Region.
- Describe how landforms affect the geography of the Great Plains Region.
- Analyze the ways climate affects the geography of the Great Plains Region.
- Identify key water sources in the Great Plains Region.
- Describe how water sources affect the geography of the Great Plains Region.
- Identify natural resources of the Great Plains Region and explain how they are used.
- Identify animals that live in habitats of the Great Plains Region.
- Outline the history of the Great Plains Region.
- Describe the impact of key events in the history of the Great Plains Region.
- Identify key areas of economic activity in the Great Plains Region.
- Describe products and services produced in the Great Plains Region.
- Identify characteristics that distinguish culture in the Great Plains Region from culture found in other U.S. regions.
- Describe traditions and destinations unique to the Great Plains Region.
- Identify food, literature, art, and entertainment, the individuals from the Great Plains Region who created them, and describe how they reflect the region's culture.
- Create a treasure map and clues using geography facts about the Great Plains Region.

Unit 6

- Identify the states of the South Central Region on a map.
- Recall facts about states in the South Central Region.
- Identify key water sources in the South Central Region.
- Describe how water sources affect the geography of the South Central Region.
- Identify key landforms in the South Central Region.
- Describe how landforms affect the geography of the South Central Region.
- Analyze the ways climate affects the geography of the South Central Region.
- Identify natural resources of the South Central Region and explain how they are used.
- Identify animals that live in the South Central Region.
- Outline the history of the South Central Region.
- Describe the impact of key events in the history of the South Central Region.
- Identify key areas of economic activity in the South Central Region.
- Describe products and services produced in the South Central Region.
- Identify characteristics that distinguish the culture of the South Central Region from other U.S. regions.
- Describe traditions and destinations unique to the South Central Region.

- Identify art, music, food, and the individuals from the South Central Region who created them and describe how these things reflect the region's culture.

Unit 7

- Identify the Mountain Region states on a map.
- Recall facts about states in the Mountain Region
- Identify key water sources in the Mountain Region.
- Describe how water sources affect the geography of the Mountain Region.
- Identify key landforms in the Mountain Region.
- Describe how landforms affect the geography of the Mountain Region.
- Analyze the ways climate affects the geography of the Mountain Region.
- Identify natural resources of the Mountain Region and explain how they are used.
- Identify animals that live in habitats in the Mountain Region.
- Outline the history of the Mountain Region.
- Describe the impact of key events in Mountain Region history.
- Identify key areas of economic activity in the Mountain Region.
- Describe products and services produced in the Mountain Region.
- Identify characteristics that distinguish culture of the Mountain Region.
- Describe traditions and destinations unique to the Mountain Region.
- Identify the art, music, food, and individuals from the Mountain Region, who created them, and how they reflect the region's culture.

Unit 8

- Identify states of the Northwest Region on a map.
- Recall facts about states of the Northwest Region.
- Identify key water sources in the Northwest Region.
- Describe how water sources affect the geography of the Northwest Region.
- Identify key Northwest Region landforms.
- Describe how landforms affect the geography of the Northwest Region.
- Analyze the ways climate affects the geography of the Northwest Region.
- Identify natural resources of the Northwest Region and explain how they are used.
- Identify animals that live in the Northwest Region.
- Identify the Northwest Region's history.
- Describe the impact of key events in Northwest Region history.
- Identify key areas of economic activity in the Northwest Region.
- Describe products and services produced in the Northwest Region.
- Identify characteristics that distinguish the culture of the Northwest Region from other U.S. regions.
- Describe traditions and destinations unique to the Northwest Region.
- Identify individuals who contributed to the Northwest Region's culture.

Unit 9

- Identify the states and state capitals of the West Region on a map.
- Recall facts about states in the West Region.
- Identify key water sources in the West Region.
- Describe how water sources affect the geography of the West Region.
- Identify key landforms in the West Region.
- Describe how landforms affect the geography of the West Region.
- Analyze the ways climate affects the geography of the West Region.
- Identify natural resources of the West Region and explain how they are used.
- Identify animals that live in habitats in the West Region.
- Outline the history of the West Region.
- Describe the impact of key events in the history of the West Region.
- Identify key areas of economic activity in the West Region.
- Describe products and services produced in the West Region.
- Identify characteristics that distinguish the culture of the West Region from other U.S. regions.
- Describe traditions and destinations unique to the West Region.
- Identify cultural contributions by individuals from the West Region and describe how they reflect the region's culture.

Unit 10

- Identify the states of Alaska and Hawaii on a map.
- Recall facts about Alaska and Hawaii.
- Identify key water resources in Alaska and Hawaii.
- Describe how water resources affect the geography of Alaska and Hawaii.
- Identify key landforms in Alaska and Hawaii.
- Describe how landforms affect the geography of Alaska and Hawaii.
- Analyze the ways climate affects the geographies of Alaska and Hawaii.
- Identify natural resources of Alaska and Hawaii and explain how they are used.
- Identify animals that live in habitats in Alaska and Hawaii.
- Outline the histories of Alaska and Hawaii.
- Describe the impact of key events in Alaska's and Hawaii's histories.
- Identify key areas of economic activity in Alaska and Hawaii.
- Describe products and services important in Alaska and Hawaii.
- Identify characteristics that distinguish Alaska's and Hawaii's cultures from other U.S. states.
- Describe traditions and destinations unique to Alaska and Hawaii.
- Identify cultural contributions by individuals from Alaska and Hawaii.
- Determine whether each organized U.S. territory is located in the Caribbean Sea or the Pacific Ocean.
- Identify geographic characteristics of the five organized U.S. territories.

- Describe the impact of key events in the histories of the five organized U.S. territories.
- Describe aspects of culture and traditions in the five organized U.S. territories.

4th Grade California History

Unit 1

- Study the geography of Utah: its location in the United States, its climate, and Examine the role of historians and archaeologists.
- Apply map skills to interpret information on maps.
- Identify geographic divisions such as latitude, longitude, hemispheres, time zones, and seasons.
- Use latitude and longitude to identify locations on a map.
- Compare and contrast the physical regions of California.
- Identify physical features on a map of California.

Unit 2

- Survey the origin and home regions of Native Americans in prehistoric times.
- Investigate the daily life and cultural characteristics of Native Californians including the Chumash, Miwok, Yurok, Yokuts, Cahuilla, and Mohave.
- Analyze how exploration of the Pacific Northwest by Europeans shaped the development of California's history.
- Analyze how exploration of the American Southwest by the Spanish shaped the development of California's history.
- Describe the daily life and culture of Spanish institutions including missions, presidios, ranchos, and pueblos.

Unit 3

- Describe the events leading to Mexican independence and its effect on Alta California.
- Identify American explorers and trappers who paved the way for Americans to settle in California.
- Analyze Californian's attempts to end Mexican control.
- Describe the impact of the 1849 gold rush on the economic development of California.
- Outline the events leading to California statehood.
- Describe physical, cultural, economic, and political characteristics of California's state capitol, Sacramento.
- Describe how technological innovations such as the telegraph and railroad connected California with the rest of the United States.
- Analyze information from maps of California.

Unit 4

- Identify the origin and contributions of immigrants to the development of California.

- Identify the contributions of women in the development of California.
- Analyze the impact of the growth of cities on the development of California.
- Identify the contributions of early merchants in the development of California.
- Identify and describe how various water systems provide water for all Californians.
- Describe events in the early 1900s that shaped California's history.
- Examine the impact of the Great Depression on California's economy and population.
- Identify California's contribution to the war effort during World Wars I and II.

Unit 5

- Identify California history events during the latter 20th Century.
- Identify California history events during the early 21st Century.
- Identify the origin and structure of the U.S. government.
- Explain the history and etiquette of the Pledge of Allegiance.
- Compare and contrast the 1879 California constitution with the U.S. Constitution.
- Describe the role of each of the three branches of California government.
- Identify ways Californians can participate in government.
- Examine the role of local governments.
- Identify characteristics of California's free enterprise system.

Unit 6

- Identify the characteristics and scope of major industries in California including agriculture, defense, technology, and entertainment.
- Analyze California's role as a major Pacific Rim trade partner.
- Examine current trends in California immigration.
- Identify the contributions of California immigrants.
- Survey the legacy—and future—of Olympic Games hosted by California cities.
- Compare and contrast the three tiers of California's higher education system.
- Consider the role that California's institutions of public education play in the life of Californians.
- Identify contributions made to California's culture by musicians, writers, and artists.

4th Grade Utah History

Unit 1

- Study the geography of Utah: its location in the United States, its climate, and its natural regions.
- Identify the location and characteristics of the Great Salt Lake.
- Learn about the earliest days of Utah.
- Learn about the first people who came to Utah.
- Describe the importance of archaeology.
- Explain how archaeology informs us about the past.
- Learn about Native American groups in Utah and how they came to the area.
- Explain the importance of European exploration of the area that would become Utah.
- Describe early settlers in Utah.
- Understand why the United States became interested in controlling Utah.
- Understand how the Mexican-American War led to U.S. settlement in Utah.

Unit 2

- Identify the events that brought Latter-day Saint pioneers to Utah.
- Understand the reasons for conflict between Latter-day Saints and the U.S. government.
- Describe Brigham Young's goals for Utah.
- Describe why the proposed State of Deseret never happened.
- Identify state symbols that include the beehive.
- Identify ways Utah's pioneers met basic needs for food, water, and shelter.
- Describe typical home life among pioneer families.
- Describe the causes and results of the Utah War.
- Identify conflicts between Native Americans and Whites in Utah.
- Describe the Mountain Meadows Massacre.

Unit 3

- Describe the history of slavery in the Utah Territory.
- Describe how the U.S. Civil War affected people in western territories.
- Outline the events during the building of the transcontinental railroad.
- Describe ways the transcontinental railroad changed Utah.
- Identify producers and consumers.
- Describe the importance of agriculture in the Utah Territory.
- Identify natural resources mined in Utah.
- Describe the growth of industry in Utah in the mid-1800s.
- Describe efforts to encourage communal life in the Utah Territory.

Unit 4

- Outline events in the Utah Territory between 1870 and 1890.
- Describe how demand and supply work.
- Identify key events in Utah in the 1890s, including statehood.
- Describe details about Utah's 1895 constitutional convention.
- Identify key provisions found in Utah's state constitution.
- Identify immigrant groups that have settled in Utah.
- Describe cultural contributions made by immigrants.
- Identify government leaders and events in the first years of Utah statehood.
- Describe cultural changes in Utah in the 1920s.
- Identify ways the Great Depression and World War II affected Utah.

Unit 5

- Describe the role of each of the three branches of Utah government.
- Outline the process a bill follows to become a law.
- Explain the roles of county, city, and tribal governments.
- Identify rights of American citizens.
- Describe responsibilities of American citizens.
- Explain ways that Utahns can work together.
- Describe ways to learn about and influence government.
- Identify key events that took place in Utah after World War II.
- Identify key events that took place in Utah after 2000.

Unit 6

- Identify national parks in Utah and the benefits they provide to the state.
- Identify Utah's state parks and the benefits they provide to the state.
- Identify ways that Utahns protect their land, waterways, and wildlife.
- Describe changes to Utah's geography that have taken place over time.
- Identify whether changes to geography are natural or human changes.
- Identify major highways in Utah.
- Describe how highways, railroads, and airports help Utahns.
- Identify characteristics of select Utah cities and towns.
- Describe how power plants are an important part of Utah's economy.

4th Grade Ohio History

Module 1

- Identify the roles of historians and archaeologists.
- Explain the difference between primary and secondary sources.
- Describe the role of myths and legends.
- Summarize the characteristics of the free enterprise system.
- Describe the five themes of geography.
- Identify the roles of geographers and cartographers.
- Identify tools used to read maps.
- Identify map tools on a map.
- Describe how grids, latitude, and longitude are used to locate places on maps.
- Identify different types of maps.

Module 2

- Identify geographic regions of Ohio.
- Describe how people have changed Ohio's environment.
- Describe characteristics of Ohio's climate.
- Identify natural resources found in Ohio.
- Identify and describe Ohio's water and physical landforms.
- Identify unique places in Ohio, including Kelleys Island and Cuyahoga Valley National Park.
- Describe characteristics of prehistoric cultures in Ohio.
- Identify Native American groups that have lived in Ohio.
- Describe the cultural characteristics of Ohio's Native American groups.
- Understand how group interactions led Native American groups to migrate.

Module 3

- Identify the causes and effects related to the arrival of Europeans in the Great Lakes region.
- Describe the impact of the French and Indian War on Ohio.
- Identify events that led to conflict between Britain and the American colonies.
- Describe ways the colonies united against Britain.
- Analyze events leading to the American colonies declaring independence.
- Identify events in Ohio during the American Revolution.
- Identify events that ended the American Revolution.
- Describe the effect of the Land Ordinance of 1785 and the Northwest Ordinance of 1787 on Ohio.
- Identify what the Framers created at the Constitutional Convention.
- Identify factors that opened Ohio to settlers.
- Describe key events in the Northwest Territory including the Northwest Indian War.

- Describe the role of each of the three branches of Ohio's government.
- Identify services provided by the state government.

Module 4

- Describe events leading to Ohio statehood.
- Identify rights found in the Ohio constitution.
- Identify responsibilities and duties of Ohioans.
- Describe the difference between duties and other responsibilities.
- Identify developments in Ohio during the 1800s.
- Describe events affecting Ohio during the War of 1812.
- Describe developments in Ohio after the War of 1812.
- Describe Ohio's contributions to abolition, including the Underground Railroad.
- Identify events affecting Ohio during the American Civil War.
- Describe the relationship between Ohio's natural resources and industries.
- Describe key events in Ohio history, including contributions by Ohio inventors.

Module 5

- Describe the contributions of Ohioans who served as U.S. presidents.
- Describe contributions by Ohioans during the two world wars.
- Identify Ohio military bases.
- Identify population and demographic trends in Ohio.
- Describe characteristics of Ohio cities.
- Identify key transportation systems in Ohio.
- Identify Ohio destinations that hold historic, cultural, or recreational value.
- Identify key sectors in Ohio's economy.

Module 6

- Recognize Ohio state symbols and their meanings.
- Identify major contributions by Ohio inventors and innovators.
- Identify foods and celebrations that are important to Ohio culture.
- Identify Ohioans who have achieved greatness and inspired others.
- Identify contributions to the arts made by Ohio celebrities.
- Identify ways that people earn money.
- Describe the benefits of saving money.

4th Grade Kansas History

Unit 1

- Describe the five themes of geography.
- Compare and contrast the roles of geographers and cartographers.
- Describe ways that geographers gain information.
- Describe the importance of America's founding documents.
- Identify the three branches of government.
- Describe how the Pledge of Allegiance and official motto reflect patriotic values.
- Describe how the songs "Lift Every Voice and Sing" and "America the Beautiful" reflect patriotic values.
- Summarize the characteristics of the free enterprise system including risk versus reward.
- Compare and contrast the roles of historians and archaeologists.
- Explain the difference between primary and secondary sources.
- Describe the difference between myths and legends.
- Apply map tools in reading maps.
- Describe how grids, latitude, and longitude are used to locate places on maps.
- Identify different types of maps.

Unit 2

- Identify the states of the Northeast Region on a map.
- Recall facts about states in the Northeast Region.
- Identify key water sources in the Northeast Region.
- Analyze how water sources affect the geography of the Northeast Region.
- Identify key landforms in the Northeast Region.
- Describe how landforms affect the geography of the Northeast Region.
- Analyze the ways climate affects the geography of the Northeast Region.
- Identify natural resources of the Northeast Region and explain how they are used.
- Identify animals that live in habitats in the Northeast Region.
- Outline the history of the Northeast Region.
- Describe the impact of key events in Northeast Region history.
- Identify key areas of economic activity in the Northeast Region.
- Describe products and services produced in the Northeast Region.
- Identify characteristics that distinguish the culture in the Northeast Region from other U.S. regions.
- Describe traditions and destinations unique to the Northeast Region.
- Identify the food, music, art, and literature of the Northeast Region, who created them, and how they reflect the region's culture.

Unit 3

- Identify the states of the Southeast Region on a map.
- Recall facts about states in the Southeast Region.
- Identify key water sources in the Southeast Region.
- Analyze how water sources affect the geography of the Southeast Region.
- Identify key landforms in the Southeast Region.
- Describe how landforms affect the geography of the Southeast Region.
- Analyze the ways climate affects the geography of the Southeast Region.
- Identify natural resources of the Southeast Region and explain how they are used.
- Identify animals that live in habitats in the Southeast Region.
- Outline the history of the Southeast Region.
- Describe the impact of key events in Southeast Region history.
- Identify key areas of economic activity in the Southeast Region.
- Describe products and services produced in the Southeast Region.
- Identify characteristics that distinguish the culture in the Southeast Region from other U.S. regions.
- Describe traditions and destinations unique to the Southeast Region.
- Identify the music, food, and literature of the Southeast Region, who created them, and how they reflect the region's culture.

Unit 4

- Identify the states of the Great Lakes Region on a map.
- Recall facts about states in the Great Lakes Region.
- Identify key water sources in the Great Lakes Region.
- Identify the Great Lakes on a map.
- Describe how water sources affect the geography of the Great Lakes Region.
- Identify key landforms in the Great Lakes Region.
- Describe how landforms define the geography of the Great Lakes Region.
- Analyze the ways climate affects the geography of the Great Lakes Region.
- Identify natural resources of the Great Lakes Region and explain how they are used.
- Identify animals that live in habitats in the Great Lakes Region.
- Identify key events in the history of the Great Lakes Region.
- Describe the impact of key events in Great Lakes Region history.
- Identify key areas of economic activity in the Great Lakes Region.
- Describe products and services produced in the Great Lakes Region.
- Identify characteristics that distinguish the culture in the Great Lakes Region from other U.S. regions.
- Describe traditions and destinations unique to the Great Lakes Region.
- Identify the food, music, literature, art, and entertainment of the Great Lakes Region, who created them, and how they reflect the region's culture.

Unit 5

- Identify states of the Great Plains Region on a map.
- Recall facts about states in the Great Plains Region.
- Identify key landforms in the Great Plains Region.
- Describe how landforms affect the geography of the Great Plains Region.
- Analyze the ways climate affects the geography of the Great Plains Region.
- Identify key water sources in the Great Plains Region.
- Describe how water sources affect the geography of the Great Plains Region.
- Identify natural resources of the Great Plains Region and explain how they are used.
- Identify animals that live in habitats of the Great Plains Region.
- Outline the history of Kansas.
- Describe the impact of key events in the history of Kansas.
- Create a treasure map and clues using geography facts about Kansas.
- Identify key areas of economic activity in the Great Plains Region.
- Describe products and services produced in the Great Plains Region.
- Identify characteristics that distinguish culture in the Great Plains Region from culture found in other U.S. regions.
- Describe traditions and destinations unique to the Great Plains Region.
- Identify food, literature, art, and entertainment, the individuals from the Great Plains Region who created them, and describe how they reflect the region's culture.
- Describe the three branches of Kansas's state government and the function of each.
- Apply interpersonal skills to plan a class field trip.
- Analyze route possibilities to create a map for a trip.

Unit 6

- Identify the states of the South Central Region on a map.
- Recall facts about states in the South Central Region.
- Identify key water sources in the South Central Region.
- Describe how water sources affect the geography of the South Central Region.
- Identify key landforms in the South Central Region.
- Describe how landforms affect the geography of the South Central Region.
- Analyze the ways climate affects the geography of the South Central Region.
- Identify natural resources of the South Central Region and explain how they are used.
- Identify animals that live in the South Central Region.
- Outline the history of the South Central Region.
- Describe the impact of key events in the history of the South Central Region.
- Identify key areas of economic activity in the South Central Region.
- Describe products and services produced in the South Central Region.

- Identify characteristics that distinguish the culture of the South Central Region from other U.S. regions.
- Describe traditions and destinations unique to the South Central Region.
- Identify art, music, food, and the individuals from the South Central Region who created them and describe how these things reflect the region's culture.

Unit 7

- Identify the Mountain Region states on a map.
- Recall facts about states in the Mountain Region
- Identify key water sources in the Mountain Region.
- Describe how water sources affect the geography of the Mountain Region.
- Identify key landforms in the Mountain Region.
- Describe how landforms affect the geography of the Mountain Region.
- Analyze the ways climate affects the geography of the Mountain Region.
- Identify natural resources of the Mountain Region and explain how they are used.
- Identify animals that live in habitats in the Mountain Region.
- Outline the history of the Mountain Region.
- Describe the impact of key events in Mountain Region history.
- Identify key areas of economic activity in the Mountain Region.
- Describe products and services produced in the Mountain Region.
- Identify characteristics that distinguish culture of the Mountain Region.
- Describe traditions and destinations unique to the Mountain Region.
- Identify the art, music, food, and individuals from the Mountain Region, who created them, and how they reflect the region's culture.

Unit 8

- Identify states of the Northwest Region on a map.
- Recall facts about states of the Northwest Region.
- Identify key water sources in the Northwest Region.
- Describe how water sources affect the geography of the Northwest Region.
- Identify key Northwest Region landforms.
- Describe how landforms affect the geography of the Northwest Region.
- Analyze the ways climate affects the geography of the Northwest Region.
- Identify natural resources of the Northwest Region and explain how they are used.
- Identify animals that live in the Northwest Region.
- Identify the Northwest Region's history.
- Describe the impact of key events in Northwest Region history.
- Identify key areas of economic activity in the Northwest Region.
- Describe products and services produced in the Northwest Region.

- Identify characteristics that distinguish the culture of the Northwest Region from other U.S. regions.
- Describe traditions and destinations unique to the Northwest Region.
- Identify individuals who contributed to the Northwest Region's culture.

Unit 9

- Identify the states and state capitals of the West Region on a map.
- Recall facts about states in the West Region.
- Identify key water sources in the West Region.
- Describe how water sources affect the geography of the West Region.
- Identify key landforms in the West Region.
- Describe how landforms affect the geography of the West Region.
- Analyze the ways climate affects the geography of the West Region.
- Identify natural resources of the West Region and explain how they are used.
- Identify animals that live in habitats in the West Region.
- Outline the history of the West Region.
- Describe the impact of key events in the history of the West Region.
- Identify key areas of economic activity in the West Region.
- Describe products and services produced in the West Region.
- Identify characteristics that distinguish the culture of the West Region from other U.S. regions.
- Describe traditions and destinations unique to the West Region.
- Identify cultural contributions by individuals from the West Region and describe how they reflect the region's culture.

Unit 10

- Identify the states of Alaska and Hawaii on a map.
- Recall facts about Alaska and Hawaii.
- Identify key water resources in Alaska and Hawaii.
- Describe how water resources affect the geography of Alaska and Hawaii.
- Identify key landforms in Alaska and Hawaii.
- Describe how landforms affect the geography of Alaska and Hawaii.
- Analyze the ways climate affects the geographies of Alaska and Hawaii.
- Identify natural resources of Alaska and Hawaii and explain how they are used.
- Identify animals that live in habitats in Alaska and Hawaii.
- Outline the histories of Alaska and Hawaii.
- Describe the impact of key events in Alaska's and Hawaii's histories.
- Identify key areas of economic activity in Alaska and Hawaii.
- Describe products and services important in Alaska and Hawaii.
- Identify characteristics that distinguish Alaska's and Hawaii's cultures from other U.S. states.
- Describe traditions and destinations unique to Alaska and Hawaii.

- Identify cultural contributions by individuals from Alaska and Hawaii.
- Determine whether each organized U.S. territory is located in the Caribbean Sea or the Pacific Ocean.
- Identify geographic characteristics of the five organized U.S. territories.
- Describe the impact of key events in the histories of the five organized U.S. territories.
- Describe aspects of culture and traditions in the five organized U.S. territories.

5th Grade Social Studies

Unit 1

- Identify ways that the Renaissance influenced the American Revolution.
- Recognize the reasons European nations explored and colonized the New World.
- Examine early efforts to colonize America.
- Evaluate the accomplishments of significant colonial leaders.
- Identify New World colonies created for religious reasons.
- Identify the impact of slavery on the New World.
  Examine the culture and characteristics of the British colonies in America.

Unit 2

- Identify historical documents and events that influenced the Constitution of the United States.
- Explain why the French and Indian War was a major step towards the American Revolution.
- Identify the events that led to growing conflict between England and the American colonies.
- Describe efforts by colonists to unite the colonies against England.
- Identify the events that led to conflict between the American colonists and the British soldiers.
- Recognize the vital role that George Washington played as commanding general of the Continental Army.
- Describe how and why Americans declared independence.
- Memorize a portion of the Declaration of Independence.
- Recognize the important roles of women and African Americans during the American Revolution.
- Classify the Americans' advantages and disadvantages in facing the British.
- Explain the impact of key events on the outcome of the American Revolution.
- Identify the reasons and events leading to the creation of the Constitution of the United States.

Unit 3

- Examine the successes and shortcomings of the Articles of Confederation.
- Describe events leading to the meeting of the Constitutional Convention.
- Survey the men who were instrumental in the creation of the Constitution of the United States.
- Identify the problems and solutions delegates worked through to create the Constitution of the United States.
- Explain the basic principles of Federalism.

- Examine the role of the Federalist Papers in the ratification of the Constitution of the United States.
- Identify the rights of Americans as stated in the Bill of Rights.
- Examine the challenges unique to the Washington Presidency and the new nation.
- Identify the three warnings given in George Washington's Farewell Address.
- Describe the events and challenges faced by America during Adam's Presidency.
- Describe the events and challenges faced by America during Jefferson's Presidency.

Unit 4

- Explain the importance of the Corps of Discovery led by William Clark and Meriwether Lewis.
- Explain how tensions with the British and Native Americans led to the War of 1812.
- Describe the causes and events of the War of 1812.
- Explain how the War of 1812 gave way to the "Era of Good Feelings."
- Survey characteristics of the United States' geographical regions.
- Describe how the Industrial Revolution affected the economy of the United States.
- Describe how transportation innovations influenced the development of the United States.
- Explain how the idea of Manifest Destiny energized westward expansion.
- Identify events that led to the American Southwest becoming part of the United States.
- Describe the experience of Americans settling the American West.
- Evaluate the impact of westward expansion on the lives and culture of Native Americans.

Unit 5

- Explain the factors leading to sectionalism.
- Describe the cultural and economic characteristics of the northern states.
- Evaluate the impact of immigration on the United States.
- Describe the cultural and economic characteristics of the southern states.
- Understand the causes and goals of the Reform Movement.
- Survey the efforts of reformers to improve public education.
- Explain the efforts of reformers to advance the cause of abolition.
- Identify how reformers gained rights for women through the Women's Movement.
- Create a biography about a social reformer.
- Evaluate events leading to the American Civil War.

Unit 6

- Evaluate events leading up to the American Civil War.
- Describe how the 1860 Presidential election sparked the American Civil War.
- Describe the early events of the Civil War.
- Compare and contrast the North and South's strengths and weaknesses.
- Examine how the Civil War spurred technological advances.
- Analyze the impact of the Civil War on northern and southern civilians and soldiers.
- Examine the impact of early battles on the North and the South.
- Explain why Union victories at Gettysburg and Vicksburg were the turning point of the Civil War.
- Describe the events that drew the Civil War to an end.
- Examine the efforts to bring the South back into the Union during the period of Reconstruction.

Unit 7

- Examine the impact of the Civil War on westward expansion.
- Identify major geographical features in the United States.
- Describe the impact of the Transcontinental Railroad that first linked the East and West Coasts.
- Survey the completion of Manifest Destiny.
- Apply social studies skills to create a timeline and grid map.
- Describe ranch life during the 19th century.
- Describe the life of homesteaders during the 19th century.
- Recognize the importance of the cattle industry in developing the West.
- Develop map skills, including the use of a scale.
- Describe the characteristics of Native American tribes.
- Identify advocates who worked to help Native Americans.
- Describe the conflict between Native Americans, settlers, and the U.S. government.
- Examine the events leading to resolution of conflict between Native Americans, settlers, and the U.S. government.
- Identify and consider options for dealing with conflict.

Unit 8

- Identify how specialization and industry changed America around the dawn of the 20th century.
- Describe the experience of immigrants upon their arrival at America.
- Describe how poor working conditions led to labor reform.
- Generate a bar graph using map data.
- Examine the influence of American inventors on Americans' quality of life.

- Describe the ways that skyscrapers and transportation innovations influenced the United States.
- Examine the role of capitalists in developing American industry.
- Describe the work of Jane Addams to care for the underprivileged in American cities.
- Identify a need and create a solution to meet the need.
- Categorize the motivations driving 19th-century imperialism.
- Summarize how the Spanish-American War led to American imperialism.
- Describe the efforts of conservationists to protect America's resources.
- Explain how Alaska and Hawaii became U.S. states.
- Compare and contrast points of view concerning imperialism.

Unit 9

- Recognize changes in America during the early part of the 20th century.
- Identify leaders who advanced the cause of equality for blacks and women.
- Identify the causes of World War I.
- Describe the events of World War I.
- Analyze efforts to prevent future wars after World War I.
- Recall all 50 U.S. states and capital cities from memory.
- Recall the defining events of the 1920s.
- Identify the causes of the Great Depression.
- Describe the impact of the Dust Bowl on the Great Plains and migration.
- Examine the positive and negative impacts of the New Deal.
- Differentiate between the leaders of the Axis and Allied Powers.
- Identify events that began and defined the early part of World War II.
- Identify events that led to the end of World War II.
- Visually identify the European Axis, Allied, and neutral countries.

Unit 10

- Explain the Cold War's origin and impact on the United States.
- Describe the events before, during, and after the Korean War.
- Examine the role of the Arms Race and Space Race during the Cold War.
- Apply social studies skills to create a graphic organizer.
- Explain how significant events of the 1960s affected the United States.
- Examine significant events affecting the United States in the latter part of the 20th century.
- Describe the impact of the September 11 attacks on the United States.
- Identify positive and negative aspects of the internet.
- Create a visual timeline using pictures or drawings of people and events.
- Identify the role of parties in American politics.
- Identify historical and contemporary political parties.
- Describe the duties of U.S. citizens.
- Recognize the origin of, and importance of, the Pledge of Allegiance.

- Identify ways citizens may contact local, state, and national public officials.
- Describe the origin and significance of national holidays.
- Assemble a plan for a national holiday event.

6th Grade World Cultures

Unit 1

- Consider the role and impact of history, geography, economics, resources, and technology on the development of societies.
- Distinguish between and analyze reference and thematic maps, globes, and Mercator and Winkel projections.
- Utilize latitude and longitude to locate geographic locations.
- Understand the importance of primary sources and archaeology in understanding past events.
- Identify and discern the differences between myths and legends.
- Recognize the limitations of dating ancient events.
- Understand the characteristics that constitute a civilization.
- Describe the development of early civilizations in the Fertile Crescent and the progression of ancient Middle East civilizations and empires.
- Describe the development of early civilizations in the Nile River valley and subsequent civilizations from the Old Kingdom to Roman rule.
- Describe the contributions and development of early civilizations in the Indus River valley and subsequent Indian civilizations.
- Describe the development of early civilizations in the Yellow River valley and subsequent Chinese dynasties.
- Survey the history, beliefs, and impact of three major world religions with roots in the Middle East.
- Survey the history and geography, and cultural traits of representative Middle Eastern countries.
- Survey and evaluate how culture and other aspects of social science influence the culture of Middle Eastern societies today.

Unit 2

- Survey the history and geography of Greece.
- Consider the influence of ancient Greece on contemporary western society.
- Identify cultural traits of Greece.
- Evaluate how history, geography, and other aspects of social science influence the culture of Greece.
- Consider the influence of ancient Rome on contemporary western society.
- Survey the history, geography, and culture of Italy.
- Evaluate how aspects of social science influence the culture of Italy.
- Survey the history and geography of Europe from the fall of the Roman Empire to today.
- Evaluate the impact of historical events on the development of modern-day Europe.
- Survey the history, geography, and culture of Spain.
- Evaluate how aspects of social science influence the culture of Spain.

- Survey the history, geography, and culture of France.
- Evaluate how aspects of social science influence the culture of France.
- Survey the history, geography, and culture of Germany.
- Evaluate how aspects of social science influence the culture of Germany.
- Understand the political and geographical definition of the Balkans.
- Survey the history, geography, and culture of Bulgaria.
- Evaluate how aspects of social science influence the culture of Bulgaria.
- Survey the history, geography, and culture of the United Kingdom.
- Evaluate how aspects of social science influence the culture of the United Kingdom.
- Survey the history, geography, and culture of Sweden.
- Evaluate how aspects of social science influence the culture of Sweden.

Unit 3

- Survey the geography of the United States.
- Survey the history of the United States from a cultural perspective.
- Understand how and why the United States Constitution originated.
- Understand the organization and responsibilities of the three branches of government.
- Summarize limits placed on the national government of the United States.
- Differentiate between the rights, duties, and responsibilities of American citizens.
- Distinguish differences between limited and unlimited governments.
- Evaluate how different aspects of social science influence the culture of the United States.
- Survey the history, geography, government, and economy of Canada.
- Investigate the significant roles of French and Inuit cultures in Canada.
- Evaluate how different aspects of social science influence the culture of Canada.

Unit 4

- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Mexico today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Cuba today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of the Dominican Republic today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Guatemala today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Panama today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Honduras today.

Unit 5

- Survey the geography and early history of South America.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Colombia and Venezuela today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Brazil, Peru, and Ecuador today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Chile, Argentina, and Paraguay today.

Unit 6

- Survey the history and government of Russia.
- Survey the geography of Russia.
- Identify Russia's cultural traits and contributions.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Ukraine, Poland, and Finland today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Kazakhstan, Mongolia, and Afghanistan today.

Unit 7

- Survey the geography, history, and government of Turkey.
- Evaluate how aspects of social science influence the culture of Turkey today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Pakistan today.
- Survey the geography and economy of India.
- Survey the history and government of India.
- Evaluate how aspects of social science influence the culture of India today.
- Survey the geography and economy of China.
- Survey the history and government of China.
- Evaluate how aspects of social science influence the culture of China today.

Unit 8

- Survey the geography, history, and government of Japan.
- Evaluate how aspects of social science influence the culture of Japan.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of North and South Korea today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Myanmar, Vietnam, and Cambodia today.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of the Philippines, Malaysia, and Indonesia today.

Unit 9

- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Algeria, Sudan, South Sudan, and Kenya.
- Differentiate the characteristics of Africa's major regions.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of the Democratic Republic of the Congo, Ghana, and Nigeria.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Zimbabwe, South Africa, and Madagascar.

Unit 10

- Plan, research, and write a research paper about one nation.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Australia.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Papua New Guinea, Melanesia, New Zealand, Polynesia, and Micronesia.
- Survey and evaluate how history, geography, and other aspects of social science influence the culture of Greenland.
- Investigate the geography and history of Earth's polar regions.
- Evaluate the relevance of the polar regions to the world's cultures.

7th Grade Texas History

Unit 1

- Understand the concept of Texas Pride.
- Gain an overview of cultural diversity.
- Learn to overcome racial and cultural boundaries so as to utilize your fullest potential.
- Read and create a data table.
- Be able to read and interpret a map.
- Understand the six essentials of geography.
- Know how to find absolute and relative locations.
- Be able to identify a location on a map by its coordinates.
- Understand the role of human interaction in environment and learn to accept responsibility for our environment.
- Gain an overall exposure to the general regions of the state.
- Learn how to make wise choices in the area of role models.
- Be familiar with geographical surface features.
- Recognize the natural geographic regions of the U.S. and Texas.
- Know the general characteristics of each geographic region.

Unit 2

- Understand why modern science cannot fully explain the origins of Native Americans.
- Know the basic principles of the Beringia Theory.
- Know the basic principles of the Trans-Oceanic Theory.
- Know the basic principles of the Pangaea Theory.
- Be able to evaluate archaeological, genetic, and linguistic evidence of prehistoric habitation by Native Americans.
- Be able to explain the pros and cons of the Beringia, Trans-Oceanic, and Pangaea Theories of Native American migration into Texas.
- Know how to read and create a pie chart.
- Gain an overview of the Geologic Time Scale.
- Know the name of the Eon, Era, Period, Epoch, and Stage we live in now.
- Have a basic understanding of radiometric dating.
- Know the difference between characteristics of the Paleoindian and Archaic Stages.
- Know how the discoveries of Olmec and Mayan civilizations influenced Native Americans in Texas.
- Know the cultural similarities anthropologists used to organize Native Americans into Cultural Groups.
- Be familiar with the 12 Cultural Groups of Native Americans in North America.

- Know the four Cultural Groups of Native Americans in Texas and be familiar with the characteristics of each.
- Know the names of the major Native American cultural units within the Southeastern Culture.
- Know the names of the major Native American cultural units within the Gulf Culture.
- Know the names of the major Native American cultural units within the Southwestern Culture.
- Know the names of the major Native American cultural units within the Plains Culture.

Unit 3

- Know how to face a new, unknown situation.
- Understand the reason why conquistadors came to Texas.
- Be familiar with the basic chronology of the journeys of Luis de Moscoso Alvarado, Alvar Núñez Cabeza de Vaca, Christopher Columbus, Francisco Vázquez de Coronado, Hernándo Cortez, Antonio de Espejo, Pánfilo de Narváez, Don Juan de Oñate, Alvarez de Pineda, Gaspar Castaño de Sosa, Hernándo de Soto and Amerigo Vespucci.
- Realize the struggles and difficulties of Cabeza de Vaca and the impact he made on Texas.
- Know Spain's goals for colonizing Texas and the New World.
- Know France's goals for colonizing Texas and the New World.
- Understand why Fort St. Louis failed as a French settlement in Texas.
- Be familiar with the location and the reason for the establishment of East Texas Missions and Presidios, the Goliad Mission and Presidio, the Rio Grande Missions and Presidios and the Southern Plains Missions and Presidio.
- Recognize the importance of René Robert Cavelier, Sieur de La Salle, Louis de St. Denis, Alonso de León and the Marqués de San Miguel de Aguayo.
- Understand why Spain was unsuccessful in colonizing Texas.
- Be familiar with the beginning history of the first Texas settlements—San Fernando de Béxar (San Antonio), La Bahia (Goliad), Nacogdoches, Laredo and Ysleta (El Paso).
- Realize the impact that Spanish culture had on the development of Texas culture.

Unit 4

- Know why European countries were fighting over possession of colonies in the New World, including Texas.
- Understand the reasons why the United States, Mexico, and Texas each sought independence.
- Follow the exploits of Texas filibusters Philip Nolan, Peter Ellis Bean, Augustus Magee, Louis-Michel Aury, Henry Perry, and James Long and realize how they impacted the Texas independence movement.

- Be familiar with the contributions of Mexican freedom fighters such as Miguel Hidalgo, Juan de las Casas, José Morelos, Bernardo Gutiérrez, Vicente Guerrero, Francisco Mina, Guadalupe Victoria, and Agustín Itúrbide.
- Be acquainted with the major details of Champ d'Asile and why the colony failed.
- Know the terms of the Adams-Onís Treaty of 1819.
- Be able to summarize the life of Jean Lafitte.
- Understand why a good reputation is important.
- Be able to summarize the life history of Moses Austin and understand the reasons why he desired to colonize Texas.
- Know the difficulties that Stephen F. Austin experienced in securing a land grant and bringing settlers to Texas and his responsibilities as an empresario.
- Recognize the part that Baron de Bastrop played in helping the empresarios to colonize Texas.
- Understand how "Old Three Hundred" members, such as Aylett C. Buckner, Robert M. Williamson, John Rabb and Mary Crownover Rabb, Rebekah Cumings, William and Nancy Spencer, and John Jackson and Elizabeth Tumlinson, overcame hardships to pave the way for future Texans.
- Be familiar with the contributions of empresarios, such as Green DeWitt, David Burnet, Joseph Vehlein, Lorenzo de Zavala, Martin De León, James Power and James Hewetson, and John McMullen and James McGloin.
- Know about Hayden and Benjamin Edwards, the causes of the Fredonian Rebellion, and the results of the event.
- Understand the political differences between Centralism and Federalism.
- Be familiar with the recommendations of Manuel de Mier y Téran about Texas and how those recommendations were implemented.
- Know the facts about the Anahuac Disturbances, including the cause, the names of those involved and the results.
- Know the details about the incident at Velasco including the names of those involved, the basic strategy employed, and the outcome.
- Be familiar with the resolutions of the Conventions of 1832 and 1833 and know how those resolutions were received by the Mexican government.

Unit 5

- Be able to recount the facts about the Battle of Gonzales, including the cause of the battle, the names of the major persons involved and the final outcome.
- Be able to recount the facts about the Goliad Campaign, including the cause of the battle, the names of the major persons involved and the final outcome.
- Know the steps leading up to the Consultation of 1835 and the outcome of the Declaration of November 7, 1835.
- Be able to recount the facts about the Siege of Béxar, including the cause of the battle, the names of the major persons involved and the final outcome.
- Know important facts about the life of James "Jim" Bowie.
- Be able to recount the facts about the Battle of the Alamo, including the cause of the battle, the names of the major persons involved and the final outcome.
- Be able to recount the facts about the Goliad Massacre, including the cause, the names of the major persons involved and the final outcome.

- Be able to recount the facts about the Battle of San Jacinto, including the cause of the battle, the names of the major persons involved and the final outcome.

Unit 6

- Know the story of the Battle of Sabine Pass.
- Recognize the problems faced by the Republic of Texas.
- Be familiar with the political, economic, and domestic policies of Sam Houston during his first and second term as President of the Republic of Texas.
- Be familiar with the political, economic, and domestic policies of Mirabeau Lamar during his term as President of the Republic of Texas.
- Understand the process of annexation and the difficulties Texas encountered seeking statehood in the United States.
- Know the facts about the Mexican invasions of 1842, the Cherokee War, the Council House Fight, the Archives War, and the Regulator-Moderator War.
- Understand the reasons for the Mexican-American War.
- Be familiar with the details of the Thornton Affair, the Battle of Palo Alto, and the Battle of Resaca de la Palma.
- Know the three-pronged strategy that the U.S. had for winning the Mexican-American War.
- Know the names of the first 5 governors of Texas in chronological order.
- Understand the aspects of the Compromise of 1850 and how it affected Texas.
- Recognize the contributions that Governor Elisha M. Pease made to Texas in the areas of education, transportation, communication, finance, and Native American affairs.
- Be aware of the contributions made to Texas by the Butterfield Overland Stage; the Buffalo Bayou, Brazos and Colorado Railroad; and the Texas and Red River Telegraph Company.
- Recognize the failure of the Texas Native American Reservation attempts.
- Understand the disparities that existed between the North and the South in the 1850s.
- Know the events leading up the American Civil War.
- Know how Texans fought in the Civil War in battles east of the Mississippi River.
- Be able to follow the details of the New Mexico Campaign, especially the Battle of Valverde and the Battle of Glorietta Pass.
- Be familiar with the details of the Battle of Galveston, the Red River Campaign, and the Battle of Palmito Ranch.

Unit 7

- Learn a little about being on a cattle drive.
- Know about the African American slaves' struggle for freedom, including the
- Emancipation Proclamation, General Order Number Three, Juneteenth and the Thirteenth, Fourteenth, and Fifteenth Amendments to the U.S. Constitution.
- Understand the problems that the former Confederate States faced during Presidential and Congressional Reconstruction.

- Be familiar with the details surrounding the assassination of U.S. President Abraham Lincoln.
- Have a greater understanding of symbolism in politics and how to interpret a political cartoon.
- Be aware of the steps that Texas took to be readmitted to the United States, including the Constitutional Conventions of 1866 and 1868.
- Understand the Presidential impeachment process and be familiar with the details surrounding the impeachment of Andrew Johnson.
- Understand the conflict between the Plains Native Americans and Texas settlers and why peaceful attempts at negotiations, such as the Little Arkansas Treaty and the Treaty of Medicine Lodge Creek, failed to produce a lasting peace.
- Be familiar with the details of the First and Second Battle of Adobe Walls, the Warren Wagontrain Raid, and the Red River War.
- Know the impact made on Texas history by Native Americans such as Set-tainte
- (White Bear), Setangya (Sitting Bear), Ado-eete (Big Tree), Guipago (Lone Wolf), Paruasemena (Ten Bears), Tene-angopte (Striking Eagle), and Quanah Parker.
- Recognize the contribution made to Texas history by “Wild West” legends such as Christopher “Kit” Carson, William “Buffalo Bill” Cody, Billy Dixon, and William Barclay “Bat” Masterson.
- Know how General William Sherman, General Philip Sheridan, Colonel Ranald McKenzie, Colonel Nelson Miles, and Captain Wyllys Lyman affected the outcome of the Red River War.
- Learn about Doan’s Crossing and the hazards of crossing a major river on a cattle drive.
- Understand the concept of the law of supply and demand.
- Know why cattle drives and large ranches were an important part of Texas history and know why the cattle drives stopped and many ranches disappeared.
- Realize that the life of a cowboy was not as glamorous as Hollywood portrays but that a cowboy’s life was filled with danger, drudgery, and hard work.
- Be able to locate the major cattle trails on a map and know some of the major details about each one.
- Know the names of some of the major ranches in Texas.
- Understand how cotton became the most important crop in Texas in the 1800s.
- Learn how railroads developed in Texas and how the Railroad Commission came into existence.
- Know some of the contributions that Governor James Hogg made to Texas.

Unit 8

- Understand the philosophy of Progressivism.
- Know the details of the Galveston Hurricane of 1900 and how it impacted Texas.
- Be familiar with some facts about tropical cyclones.
- Understand boom and bust economy.
- Know the details of the Lucas Gusher at Spindletop.
- Have gained an overview of the beginnings of the petroleum industry in Texas.
- Be familiar with the details of the Houston Ship Channel.

- Understand the primary election system.
- Know the history of women's suffrage in Texas.
- Have a basic understanding of the Mexican Revolution and how it impacted Texas history.
- Know some facts about Francisco "Pancho" Villa.
- Understand the reasons why the United States entered World War I.
- Be familiar with the ways that World War I affected Texans and how they coped with the situation.
- Understand the changes in traditional social values that occurred during the "Roaring Twenties."
- Be familiar with the results of Prohibition.
- Know the characteristics and contributions of each Texas Governor during the 1920s and 1930s.
- Have a basic understanding of the stock market crash of 1929 and the Great Depression.
- Know about "New Deal" programs that helped Texans recover from the Great Depression.
- Know the details about the crime spree of Bonnie and Clyde.
- Understand the reasons behind World War II and how Texans responded to the war.
- Know about famous Texans who served in the war, especially Dwight D. Eisenhower, Chester W. Nimitz, Claire Lee Chennault, Oveta Culp Hobby, Audie Murphy, Doris "Dorie" Miller, Samuel D. Dealey, and Hector P. García.

Unit 9

- Understand how the economy of Texas in the 1950s created a higher standard of living for many and caused a shift in population centers.
- Know the reasons for the Tidelands Controversy.
- Be familiar with the wars in Korea and Vietnam and how Texas was involved.
- Gain an overview of the Interstate Highway System in Texas.
- Recognize the major aspects of the Civil Rights Movement and how Texas responded to racial discrimination and segregation.
- Know about the lives and accomplishments of Henry B. González, Sam Rayburn, James Farmer and Lyndon Johnson.
- Be familiar with the role of Texas and Texans as leaders in the areas of science, technology and medicine.
- Gain an overview of the events of the Kennedy assassination.
- Understand the role of Texas in the Space Race.
- Be familiar with the important aspects of the Great Society Program of LBJ.
- Gain an overview of the social upheaval of the 1970s.
- Be familiar the important details of Texas Governors: John Connally, Preston Smith, Dolph Briscoe, Bill Clements, Mark White, Ann Richards and George W. Bush.
- Acknowledge the achievements of Barbara Jordan, Kay Bailey Hutchinson and Phil Gramm.

- Understand how the Presidencies of Richard Nixon, Ronald Reagan and George H. W. Bush affected Texas.
- Be able to examine the facts and determine a responsible course of action regarding such topics as the “No Pass/No Play” and the Texas Lottery.
- Know about the Mt. Carmel Tragedy near Waco.

Unit 10

- Understand the cause and effect of the millennium bug (Y2K).
- Know something about the life and career of Governor Rick Perry.
- Be familiar with such events as the Columbia Disaster, Hurricanes Katrina, Rita and Ike and the Governor’s Mansion Fire.
- Understand some of the pros and cons of the Trans Texas Corridor.
- Know the 3 major periods of Texas Literature and some of the major authors and works of each.
- Gain an understanding of the life and works of J. Frank Dobie.
- Be able to recognize the difference between 20th Century Literature written in the Southern, Western, Urban or Tejano styles.
- Get an overview of the origins of Tejano, country, blues and rock music in Texas and some of the major artists of each style.
- Know the history of the 7 Texas Constitutions.
- Be familiar with the overall structure of the Texas Constitution of 1876.
- Understand the principle of checks and balances and separation of powers.
- Know the basic structure of the Legislative, Executive and Judicial Branches of the Texas government.
- Be able to trace the steps in how a bill becomes law in the Texas Legislature.
- Know your responsibilities as a citizen of Texas and America.

8th Grade US History

Unit 1

- List and describe the three motivations that led to the discovery of the Americas.
- Explain the sense in which Columbus discovered the Americas.
- Describe the purpose of the Crusades.
- Describe the technologies that allowed for long, ocean-going voyages.
- Describe the efforts of European nations to explore the New World.
- Describe the concept of privateers.
- Describe the geography of North America and how it affected early colonization of the continent.
- Describe the early colonial efforts of Spain, France, Holland, and England.
- Explain the advantages that England possessed that helped its colonies succeed.
- Describe the founding of the Jamestown Colony.
- Describe the difficulties of Jamestown and the reasons for its ultimate success.
- Describe the two groups of Puritans in England in the early 1600s.
- Describe the events leading to the Plymouth Colony.
- Describe the development of the colonies of New England.
- Describe events in England that motivated colonists to come to North America.
- Describe events that led to the founding of the Maryland colony.
- Explain the purpose of the Toleration Act of 1649.
- List the thirteen American colonies by region.
- Place the thirteen American colonies on a map.
- Describe the lives of colonials.
- Discuss the rise of slavery in the colonies.

Unit 2

- Understand the five strands of colonial growth.
- Recount the facts of Bacon's Rebellion.
- Understand the events that led to the creation of provinces in the colonies.
- Describe the Glorious Revolution and the provisions of the English Bill of Rights.
- List the three major themes of American history at the start of the 18th century.
- Understand the events and lasting effects of the Great Awakening.
- Describe events leading to the Salem Witch Trials.
- Describe the differences between colleges in England and those in the American colonies.
- Understand the reasons for growing colonial dissatisfaction.
- Define the idea of mercantilism as an economic system.
- Describe the Navigation Acts and the colonials' efforts to resist and ignore them.
- Describe the events of the colonial wars, including the French and Indian War.
- Explain the importance of the Albany Conference.

- Describe the results of the Treaty of Paris of 1763.
- Describe the events of Pontiac's Rebellion.
- Explain the Royal Proclamation of 1763 and its results.
- Describe the vigilante action of the Paxton Boys.
- Describe the acts by the British Parliament that were unpopular both in the colonies and in England.
- Describe the use of Writs of Assistance and the Quartering Act.
- Describe the formation of resistance groups that called themselves "Sons of Liberty."
- Explain the events that led to conflict between the colonists and the British government.
- Describe the events in Boston that led to the Intolerable Acts.

Unit 3

- Understand the contributions of philosophers to the mind-set of colonial Americans.
- Describe the natural rights set forth by these philosophers.
- Describe the reasons for and the acts of the First Continental Congress.
- Explain the significance of the Galloway Plan.
- Describe the response of the British to the First Continental Congress.
- Describe the event that has become known as the Powder Alarm.
- Explain the events leading to the armed conflict at Lexington and Concord.
- Describe the events of the Second Continental Congress.
- Describe the roles of George Washington as leader of the Continental Army.
- List and explain the advantages and disadvantages facing the British Army in America.
- Describe the events of the Revolutionary War through 1776.
- Describe the events leading to the adoption of the Declaration of Independence.
- Describe the events of the second half of the Revolutionary War.
- Explain the assistance of France and Spain in winning the war.
- Describe the events leading to the end of the Revolutionary War.
- Explain the provisions of the Treaty of Paris.
- Describe the adoption and ratification of the *Articles of Confederation*.

Unit 4

- Describe the challenges facing the new nation.
- Explain the reasons for and the difficulties of the adoption and ratification of the Articles of Confederation.
- Identify the Northwest Territory of the 1780s.
- Describe the purposes of the Northwest Ordinances of 1785 and 1787.
- Explain the ideas of the "township" and the "section."
- Describe the importance of the Northwest Ordinance of 1787 as a foundational document toward democracy.

- List and explain the weaknesses of the Articles of Confederation.
- Describe the events of Shays' Rebellion.
- Describe the events of the Constitutional Convention in Philadelphia.
- Describe the compromises reached at the convention and the final results.
- Read the U.S. Constitution carefully and critically for understanding.
- Describe the process and events of the ratification of the U.S. Constitution.
- Explain the terms "Federalist" and "Anti-Federalist."
- Explain the concerns of the Anti-Federalists.
- Understand the reasons for the writing of the Federalist Papers.
- Describe the contents and purposes of the Federalist Papers.
- Differentiate the authors of the Federalist Papers.
- Know how the authors of the Federalist Papers became involved with the project.
- Understand the purpose and the meaning of the Bill of Rights.

Unit 5

- Describe the challenges facing the nation under the Constitution.
- Explain the population growth within different regions of the nation.
- Describe the economic challenges of the new nation.
- Describe the policy problems of Native American conflicts and foreign affairs.
- Describe the characteristics of a good citizen.
- Explain why people would want to become naturalized citizens of the United States.
- Describe the responsibilities of naturalized citizens.
- List the requirements for becoming a naturalized citizen.
- Describe the divisions or departments of the executive branch.
- Describe the layers of government in the federal system.
- Explain the importance of the Credit Reports.
- Describe the structure of the court system under the Washington Administration.
- Describe the events that occurred during George Washington's two terms in office.
- Explain the development of the two political parties.
- Describe developments in the nation during the second term of President Washington.
- Explain America's involvement with France and Spain.
- Describe the issues discussed in Washington's Farewell Address.
- Describe events of the John Adams' administration.
- Describe the XYZ Affair and the Quasi-War with France.
- Explain the reasons that John Adams was not reelected in 1800.
- Describe the development of political parties in the United States.
- Describe the modern political parties and their beliefs.
- Describe the events of the administration of President Thomas Jefferson.
- Explain the purpose of the 12th Amendment.
- Describe the Louisiana Purchase and the Lewis and Clark Expedition.
- Explain events surrounding the Burr-Hamilton duel and the Burr Treason Trial.

- Explain the reasons for the Industrial Revolution.
- Describe the growth of industry in the United States.
- List the technological developments that allowed the Industrial Revolution to progress.
- Explain the importance of patents.

Unit 6

- Understand the westward movement of the population of the United States.
- Name the states added to the United States from 1791 to 1837.
- Describe the events leading to the War of 1812 and the Battle of Tippecanoe.
- Explain why the United States was not ready to go to war with Great Britain.
- Describe the three-pronged strategy of the British.
- Memorize the words to the first stanza of “The Star-Spangled Banner.”
- Describe the results of the War of 1812 on the nation.
- Explain why Democrat-Republicans wanted to charter the second national bank.
- Explain the beginning and ending of the Era of Good Feelings.
- Explain the causes of the Panic of 1819, as well as how McCulloch v. Maryland strengthened the power of the federal government and judicial review.
- Describe the events that led to the Adams-Onís Treaty.
- Describe the reasons for the Missouri Compromise and the Monroe Doctrine.
- Describe the election of 1824.
- Describe the nationalist policies of John Quincy Adams.
- Explain the development of the two-party system following the election of 1824.
- Discuss the pros and cons of protective tariffs.
- Describe the events and spirit of the election of 1828, as well as the Peggy Eaton Affair.
- Explain the doctrine of nullification and its importance during the Jackson Presidency.
- Explain Andrew Jackson’s intentions for the Native American tribes of the eastern United States.
- Describe the Black Hawk War, Native American removal, and the “Trail of Tears.”
- Describe President Jackson’s opposition to the Second Bank of the United States.

Unit 7

- Describe the events known as the Second Great Awakening.
- Describe the rise of new, radical denominations and the reform movements of the early 1800s.
- Explain the movement of the Mormons from New York to Utah.
- Describe the changes which took place in the national elections due to extended suffrage.
- Explain the efforts of women’s societies to reform society.

- Describe the temperance movement, why women were interested in restricting the sale of alcoholic beverages, and the rise of abolitionism.
- Describe changes in America's education system, including contributions of Noah Webster.
- Discuss artists and writers of the first half of the 19th century.
- Describe the election of 1836 and the causes and results of the Panic of 1837.
- Explain the popular idea of Manifest Destiny.
- Describe the events that occurred in Texas and led to Texas statehood.
- Describe the problems of the Presidency of John Tyler.
- List President Polk's four main objectives for his administration.
- Describe the events in Oregon and the tragedy of the Tonquin.
- Explain the meaning of and events surrounding 54-40 or Fight.
- Describe the events leading to the acquisition of and admission to the Union of California.
- Explain the purpose of the Gadsden Purchase.
- Explain the rise of sectionalism and the reasons that it grew into a serious problem.
- Describe the effect of abolitionism on the division between North and South.
- Explain the effect of the Wilmot Proviso on sectionalism and on political parties.
- Describe the immigration and key inventions of the first half of the 19th century.

Unit 8

- Explain how the spread of cotton caused an expansion of slavery.
- Describe how fear is an important concept concerning slavery.
- Describe the meaning of "chattel property."
- Understand the difference between public and private worship in the lives of the slaves.
- Describe the balance in the Senate and political party changes in 1848.
- Describe the Compromise of 1850 and Zachary Taylor's lost favor with the Whigs.
- Explain the realignment of political parties based on sectionalism.
- Describe several issues that were viewed by North and South from their own perspectives.
- Explain the work of proslavery adventurers in Central and South America.
- Explain the purposes of the Kansas-Nebraska Act of 1854.
- Understand the events surrounding the settlement of Kansas.
- Describe the rise of the Republican Party and the Charles Sumner incident in the Senate.
- Explain the growing division of the nation around sectional issues.
- Describe the Underground Railroad and the lives of free blacks in the North and South.
- Explain the role and influence of abolitionists and the idea of "positive good."
- Explain the events that led to further division and the Dred Scott decision.
- Describe the Panic of 1857, the Lincoln-Douglas debates, and the Freeport Doctrine.

- Describe the events at the federal arsenal at Harper's Ferry.
- Explain the goals of the 1860 Republican Party and the breakup of the Democratic Party.
- Explain why the Republican victory in 1860 led to Southern secession.
- Compare and contrast the philosophies of Abraham Lincoln and Jefferson Davis.
- Analyze the advantages held by the North at the beginning of the Civil War.
- Describe the actions taken by Abraham Lincoln in the early days of the war.
- Describe the First Battle of Bull Run and its effect on Union strategy.
- Describe scientific advancements and "industrial warfare" during the Civil War.

Unit 9

- Describe the three theaters of the Civil War.
- Explain why the Southern strategy was defensive.
- Describe the South's plan to gain the support of Great Britain.
- Describe the two basic regions of the Western Theater.
- Describe the events leading to the Battle of Shiloh.
- Explain why Vicksburg, Mississippi, was so important to both the North and the South.
- Describe events in the Eastern Theater of the Civil War.
- Describe the battle of the first ironclads.
- Recount the contributions of Mathew Brady to the history of the Civil War.
- Describe Confederate attempts to invade Maryland and threaten Washington, D.C.
- Describe the purpose of the Morrill Land-Grant Act and the Homestead Act of 1862.
- Explain the results of the Emancipation Proclamation.
- Describe the work of Clara Barton and the state of medicine and surgery during the Civil War.
- Describe the Union actions taken to defeat the Confederate defenders of Vicksburg.
- Explain the importance of Chattanooga and northern Georgia to both the North and South.
- Describe the failed invasions that took place in December 1862 and in 1863.
- Memorize the Gettysburg Address.
- Interpret evidences that show the unpopularity of the Civil War.
- Describe the draft riots in New York City.
- Describe the Presidential election of 1864 and events in Georgia in 1864.
- Describe the Richmond Campaign and General Lee's surrender.
- Describe events of the Lincoln assassination and the fate of the conspirators.

Unit 10

- Describe the Ten Percent Plan and the costs of the war.
- Explain the Wade-Davis Plan and the purpose and passage of the Thirteenth Amendment.
- Describe the basic points of Andrew Johnson's Reconstruction Plan.
- Explain why the former Confederate states were forced to repudiate their debts.
- Explain why Congress seized control of the Reconstruction process.
- Describe the life and conditions of soldiers returning home after the war.
- List the objectives of the Radical Republicans for Reconstruction of the South.
- Describe and explain the purpose of the Black Codes.
- Explain the Freedmen's Bureau, and understand the provisions of the Fourteenth Amendment.
- Explain the results of the election of 1866 and their impact on Reconstruction.
- Understand the life of the freedmen after emancipation, and explain the idea of sharecropping.
- Describe the opportunities and success of black businessmen shortly after the Civil War.
- Explain the battle between the states and the Congress over the rights of the freedmen.
- Explain the fight over Reconstruction, and list the states in each military district.
- Describe the actions of the Ku Klux Klan and the laws passed to put an end to this organization.
- Describe the Tenure of Office Act and the Command of the Army Act.
- Explain the reasons for Andrew Johnson's impeachment.
- Describe the purchase of the Alaskan territory and the causes of the Plains Indians Wars.
- Describe the effectiveness of the Dawes Act and events of the First Transcontinental Railroad.
- Describe three groups who angered Southern whites during the Reconstruction.
- Describe the importance of the election of Hiram Rhodes Revels.
- Explain the Black Friday scandal as well as the Credit Mobilier scandal of 1872.
- Describe positive achievements of the Grant administration and the Presidential election of 1876.
- Explain the Compromise of 1877 as the last great sectional compromise.
- Describe the Texas Constitution.

Ancient World History

Unit 1

- Describe the aspects of studying history and geography.
- Explain how dates are written.
- Interpret maps, including explanation of lines of latitude and longitude.
- Explain the use of different types of maps.
- Locate items on a map using longitude and latitude.
- Explain prehistory and understand the Three-Age system.
- Locate items within Mesopotamia and the southwest Asia region.
- Describe the rise of civilization in Mesopotamia.
- Describe the development of writing, math, and technology in the Sumerian civilization.
- Explain the rise of empires and conquests by Mesopotamian city-states.
- Discuss Hammurabi's Code and the Epic of Gilgamesh.

Unit 2

- Recognize geography of the Middle East and Egypt.
- Describe ancient Egyptian cultures, including their religion, society, and culture.
- Define the periods and kingdoms of Egyptian history.
- Describe the best known rulers of the early Egyptian kingdoms.
- Explain the formation of the Hebrew nation and Jewish religion.
- Describe the geography and early cultures of sub-Saharan Africa.
- Describe the geography and early cultures of North, Central, and South America.

Unit 3

- Describe the geography and three basic divisions of Asia.
- Recognize the early cultures of India.
- Describe the cultures and civilization of the early Indian peoples.
- Describe the history and cultures of the early Chinese dynasties.
- Explain the rise of the early Asian religions.

Unit 4

- Describe the geography of the region of Greece, including its location on the shores of the Mediterranean, Aegean, and Ionian Seas.
- Describe the early civilizations of Greece and its Dark Age.
- Describe the rise of city-states, including Sparta and Athens.
- Explain the rise of various forms of government in the Greek city-states.
- Describe the Greek culture, including information on the economy and colonization.

- Recount events of the Persian and Peloponnesian wars.
- Describe the Macedon Empire of Alexander Great, and its aftermath.

Unit 5

- Describe the geography of the Italian Peninsula.
- Explain the rise of the Roman Republic and define the people who created it.
- Recount events and people of the Punic Wars.
- Describe the events that led to the end of the Republic and the movement from Confederation to Empire.
- Describe Roman culture, including religion, society, economy, education.
- Describe Roman art, literature, and architecture.
- Recount events of the division, decline, and fall of the Roman Empire.

Unit 6

- Identify events marking the beginning and the end of the Middle Ages.
- Survey the history of the Byzantine Empire.
- Describe events that led to the Roman Catholic Church's influence and control of European life.
- Describe the rise of Islam and growth of the Islamic Empire.
- Explain the impact that Islam had on the people of the Arabian Peninsula and in conquered territories.
- Recall the essential tenets of the Islamic faith.
- Identify the contributions made by Islamic scholars.
- Create a timeline of the Middle Ages.
- Identify contributing factors to the decline of feudalism including the Crusades and the Black Death.

Unit 7

- Describe the social structure of feudalism and its impact on politics and daily life in Europe.
- Explain the formation of the Holy Roman Empire and its importance.
- Describe the events of the Norman conquest and its lasting impact on the history of England.
- Examine the arts, family structure, religion, and government of Europe during the High Middle Ages.
- Distinguish the events and results of the first four crusades and the Children's Crusade.
- Explain the impact of the crusades on feudalism, the fate of Constantinople, and relations between Christians and Muslims.

Unit 8

- Identify elements of the arts, family structure, religion, and government of cultures in Africa, China, India, and Japan.
- Survey the development of African empires and civilizations including the Ghana, Mali, Songhai, Bantu, and Great Zimbabwe.
- Describe ways trade routes to North Africa and the Middle East affected the culture of West Africa.
- Outline the succession of Chinese dynasties during the Middle Ages including the Tang, Song, Yuan, and Ming.
- Describe the rise of the Mongol Empire and its influence on cultures and religion in Asia and Europe.
- Survey the development of Japanese civilization including the Heian period, feudalism, and the Tokugawa isolation.
- Survey the development of Indian empires and civilizations including the Gupta, Delhi Sultanate, Tamerlane Empire, and Mughal Empire.

Unit 9

- Explain the social, religious, and economic factors that sparked the Renaissance.
- Analyze the impact of important events during the Renaissance including the Hundred Years' War.
- Identify reasons that the Renaissance spread through Europe.
- Describe contributions made by Renaissance writers, architects, and artists.
- Explain developments that led to the Age of Exploration.
- Identify key explorers and their achievements.
- Describe the impact of contact between Europeans and New World indigenous peoples.
- Outline the events of the conquistador conquest of the Aztecs and Inca.
- Analyze the impact of the Columbian Exchange on cultures and peoples in the New World, Europe, Asia, and Africa.

Unit 10

- Explain the social, religious, and economic factors that sparked the Protestant Reformation.
- Analyze how the Reformation changed European perceptions of the Church and the authority of the Bible.
- Identify ways that classical thinking influenced the development of the scientific method.
- Survey evolving philosophical views during the Age of Reason.
- Identify key thinkers of the Scientific Revolution, Age of Reason, and the Enlightenment and describe their contributions.
- Explain the connection between Enlightenment thinking and the founding documents of the United States.

World Geography – 2nd Edition

Unit 1

- Define geography and its incorporation of other fields of study.
- Identify the essential subject areas of geography.
- Describe the basic map types and their uses.
- Describe Earth's location in the Solar System.
- Describe the structure of the Earth.
- Explain the natural forces that transform the surface of the Earth.
- Understand weathering and erosion.
- Describe the hydrosphere.
- Identify the importance of the water cycle.
- Describe the characteristics of weather and climate.
- Explain the effects of human interaction with its physical environment.

Unit 2

- Identify geopolitical boundaries of the United States and Canada.
- Identify the primary characteristics of each region.
- Describe the climates and the primary vegetation of each region.
- Identify the primary natural resources found in the United States and Canada.
- Describe the economies of the United States and Canada.
- Describe the impact of human life on the geography and wildlife of North America.
- Describe the primary characteristics of the population of North America.
- Identify the key events in the history of North America.
- Describe the culture of North America.

Unit 3

- Describe the physical geography of Latin America.
- Describe the water resources in Latin America.
- Identify the climates and vegetation of Latin America.
- Identify the natural resources of Latin America.
- Describe the economic history and current state of Latin America.
- Describe the human impact on the environment of Latin America.
- Describe the human geography of Latin America.
- Explain the history of Latin America.
- Describe the culture of Latin America.

Unit 4

- Identify the primary characteristics of Europe's physical geography.
- Identify the primary water sources of Europe.
- Describe Europe's climate zones and vegetation.
- Identify Europe's natural resources.
- Describe the economy of Europe.
- Discuss the impact of the human population on Europe's environment.

- Describe the primary characteristics of Europe's population.
- Identify the key events of Europe's history.
- Describe the culture of Europe.

Unit 5

- Identify the primary characteristics of Russia's physical geography.
- Identify the primary water resources of Russia.
- Describe Russia's climate zones and vegetation.
- Identify Russia's natural resources.
- Describe the economy of Russia.
- Discuss the impact of the human population on Russia's environment.
- Describe the primary characteristics of Russia's population.
- Identify the key events of Russia's history.
- Describe the culture of Russia.

Unit 6

- Identify the primary characteristics of the physical geography of East Asia.
- Identify the primary water resources of East Asia.
- Describe the climate zones and vegetation of East Asia.
- Identify the natural resources of East Asia.
- Describe the economy of East Asia.
- Discuss the impact of the human population on the environment of East Asia.
- Describe the primary characteristics of East Asia's population.
- Identify the key events of East Asia's history.
- Describe the culture of East Asia.

Unit 7

- Identify the primary characteristics of the physical geography of South Asia.
- Identify the primary water resources of South Asia.
- Identify the primary characteristics of the physical geography of South Asia.
- Describe the climate zones and vegetation of South Asia.
- Identify the natural resources of South Asia.
- Describe the economy of South Asia.
- Discuss the impact of the human population on the environment of South Asia.
- Describe the primary characteristics of South Asia's population.
- Identify the key events of South Asia's history.
- Describe the culture of South Asia.

Unit 8

- Identify the primary characteristics of the physical geography of Australia and New Zealand.
- Identify the primary water resources, climate zones, and vegetation of Australia and New Zealand.
- Learn about the natural resources, economy, and human population of Australia and New Zealand.

- Understand the primary characteristics, key events, and culture of Australia and New Zealand.
- Identify the primary characteristics of the physical geography of Oceania.
- Learn about the primary water resources, climate zones, vegetation, and natural resources of Oceania.
- Learn about the economy and demographics of Oceania.
- Discuss the impact of the human population on the environment of Oceania.
- Learn about the physical geography, climate, and key elements in the history of Antarctica.
- Identify key elements in the history of Antarctica.
- Identify the primary characteristics of the physical geography of Southeast Asia.
- Identify the primary water resources, climate zones, and vegetation of Southeast Asia.
- Learn about the natural resources and economy of Southeast Asia.
- Discuss the impact of the human population on the environment of Southeast Asia.
- Describe the primary human characteristics, key events, and culture of Southeast Asia.

Unit 9

- Identify the primary characteristics of the physical geography of Australia and New Zealand.
- Identify the primary water resources, climate zones, and vegetation of Australia and New Zealand.
- Learn about the natural resources, economy, and human population of Australia and New Zealand.
- Understand the primary characteristics, key events, and culture of Australia and New Zealand.
- Identify the primary characteristics of the physical geography of Oceania.
- Learn about the primary water resources, climate zones, vegetation, and natural resources of Oceania.
- Learn about the economy and demographics of Oceania.
- Discuss the impact of the human population on the environment of Oceania.
- Learn about the physical geography, climate, and key elements in the history of Antarctica.
- Identify key elements in the history of Antarctica.
- Identify the primary characteristics of the physical geography of Southeast Asia.
- Identify the primary water resources, climate zones, and vegetation of Southeast Asia.
- Learn about the natural resources and economy of Southeast Asia.
- Discuss the impact of the human population on the environment of Southeast Asia.
- Describe the primary human characteristics, key events, and culture of Southeast Asia.

Unit 10

- Identify the primary characteristics of the physical geography of sub-Saharan Africa.
- Identify the primary water resources of sub-Saharan Africa.
- Describe the climate zones and vegetation of sub-Saharan Africa.
- Identify the natural resources of sub-Saharan Africa.
- Describe the economy of sub-Saharan Africa.
- Discuss the impact of the human population on the environment of sub-Saharan Africa.
- Describe the primary characteristics of the population of sub-Saharan Africa.
- Identify the key events of the history of sub-Saharan Africa.
- Describe the culture of sub-Saharan Africa.

World History

Unit 1

- Identify ways archaeologists, anthropologists and historians analyze limited evidence.
- Summarize the narrative of myths or theories that have been used to explain the origin of humans.
- Explain and apply different methods that historians use to interpret the past.
- Identify changes that resulted from the development of farming.
- Explain economic, social and geographic factors that led to the development of the first civilizations.
- Identify important changes in human life caused by the Neolithic agricultural revolution.
- Summarize the history of ancient Egypt and its kingdom.
- Summarize the major cultural and economic developments in Mesopotamia, Egypt, India and China.
- Summarize the major cultural and economic developments in the Akkadian and Babylonian empires, India and the Vedic Civilization.
- Identify examples of religious and cultural influence in the new kingdom of Egypt.

Unit 2

- Describe the Minoan, Mycenaean, and Greek civilizations.
- Understand the arts and the culture of Ancient Greece.
- Demonstrate an understanding of society and government in Ancient Greece.
- Identify changes in history following the Persian Wars.
- Understand the rise and fall of the Greek and Roman empires.
- Summarize the conquest and expansion of Alexander the Great.
- Compare religious and philosophical traditions of ancient Greece.
- The major discoveries and technological innovations during the Greek civilization.
- Demonstrate an understanding of geographic and political influences on historical issues and events of the Roman Republic.
- Demonstrate an understanding of geographic, economic, social, and political influences on historical issues and events.
- Describe the religions and social differences of the Roman Empire.
- Trace the historical origins of Judaism and Christianity.
- Understand the fall of the Roman Empire..

Unit 3

- Analyze the impact of the Byzantine Empire.
- Locate places and regions on maps of the historical Byzantine Empire.
- Understand the historical and political systems of the Byzantine Empire.
- Analyze the Islamic Empire.
- Locate on maps places and regions of the historical Arabian peninsula.

- Understand the history and relevance of major religious and philosophical traditions in the Islamic empire.
- Analyze the Arab empire.
- Understand impact of geographic factors on major historic events in the Arab empire.
- Analyze the specific roles of women, children, and families in the Islamic culture.
- Identify examples of Islamic art and literature.
- Describe the origin of the algebra in mathematics.
- Understand the historical political systems of Africa.
- Understand impact of geographic factors on major historic events in Africa.
- Identify religious and philosophical traditions of Africa.
- Summarize the African society and cultural developments.
- Analyze the Indian Empires.
- Understand the religious and philosophical traditions of India.
- Understand Hinduism in India.
- Analyze the dynasties of China.
- Compare religious and philosophical traditions of Confucianism, Buddhism, and Taoism.
- Apply critical thinking skills to analyze the Mongol Empire and early Japan.
- Identify changes that resulted from the Mongol invasions.

Unit 4

- Describe the importance of Charlemagne.
- Summarize the development of the Roman Catholic Church during the early
- Middle Ages.
- Explain the impact of feudalism and its decline on European history and culture.
- Explain the growth of monarchies in Europe.
- Summarize the events surrounding the establishment of the Holy Roman Empire.
- Describe developments in Russia during the Middle Ages.
- Explain the Crusades and their effects on European culture.
- Describe the culture of the High Middle Ages.
- Explain the influence of the Roman Catholic papacy during the High Middle Ages.
- Describe the purpose of the Inquisition.
- Identify the distinctive cultural and artistic developments of the High Middle Ages.
- Identify the impact of Scholasticism on religious beliefs.
- Describe the events leading to the increase in nationalism in France and England.
- Describe the impact of the Black Death on culture and religious belief.
- Explain the reasons for the decline in influence of the Roman Catholic Church.

Unit 5

- Summarize the intellectual, religious and historical origins of the Renaissance.
- Describe the influence of the Medici family on the Renaissance.
- Summarize the factors contributing to the spread of the Renaissance.
- Describe the characteristics of the Renaissance.

- Explain the influence of Renaissance scholars on European history.
- Describe the characteristics of Renaissance art.
- Identify the leading Renaissance artists and their influence on later artists.
- Explain the intellectual, religious and political origins of the Reformation.
- Identify several forerunners of the Reformation.
- Summarize the relationship between Renaissance humanism and the Reformation.
- Explain the thought and influence of the Humanist scholar Desiderus Erasmus.
- Describe the characteristics of Northern European Renaissance art.
- Explain the condition of the Roman Catholic Church on the eve of the Reformation.
- Explain the thought and influence of Martin Luther.
- Describe the distinct doctrines of the Reformation.
- Summarize the thought and influence of John Calvin.
- Summarize the thought and influence of Ulrich Zwingli.
- Summarize the events of the Reformation in England.
- Describe the influence of the Tudors on the Reformation in England.
- Summarize the events and the significant figures of the Age of Exploration.
- Describe the lifestyles and cultures of the Native American peoples of North America.
- Describe the lifestyles and cultures of the native peoples of Central and South America.
- Summarize the efforts of the Spanish to conquer and colonize the New World.

Unit 6

- Summarize the French Wars of Religion.
- Describe the influence and significance of King Philip of Spain.
- Describe the Thirty Years' War.
- Describe the rise of absolutism in France, Prussia, and Russia.
- Describe the origins and events of the English Civil War.
- Explain the significance of the outcome of the English Civil War on later political events.
- Describe the leading events and figures of the Scientific Revolution.
- Explain the thought of the leading philosophers of the Age of Reason.
- Explain the influence of the Age of Reason on later philosophical thought.
- Summarize the main events of the American War of Independence.
- Explain the major factors which led to the American War of Independence.
- Explain the major factors which led to the French Revolution.
- Summarize the main events of the French Revolution.
- Describe the person of Napoleon Bonaparte and his influence on European history.
- Summarize the events of the establishment of Napoleon's Empire.
- Describe the major figures of art and culture of the 17th and 18th centuries and their influence.

Unit 7

- Evaluate the effects of the French Revolution.
- Identify causes and evaluate effects of the Russian Revolution.
- Evaluate how the American Revolution differed from the Russian and French Revolutions.
- Identify factors that lead to the Industrial Revolution.
- Evaluate factors that lead up to mass production.
- Understand the historical origins of the economic systems of capitalism and socialism.
- Describe the political influences of women.
- Identify the contributions of scientists and inventors in the 19th century.
- Analyze the examples of art and literature reflected in the history of the 19th century culture.
- Analyze the effects of imperialism on Great Britain, France, Germany, China, India, Japan, and Africa.

Unit 8

- Explain the factors leading to the outbreak of World War I.
- Name the opening campaigns of World War I.
- List the leading participants in World War I.
- Describe the stalemate situation on the Western Front during World War I.
- Summarize the events on the Eastern Front during World War I.
- Explain the reason and the results of the United States' involvement in World War I.
- Summarize the events and persons of the Communist revolution in Russia.
- Summarize the articles of the Treaty of Versailles.
- Explain the postwar aftermath in Europe.
- Summarize the causes of the Great Depression.
- Explain the purpose and results of the New Deal.
- Summarize the rise of dictatorial regimes in Italy and Russia following World War I.
- Summarize the rise of Nazi Germany.
- Explain the Nazi Party's attitude and treatment toward non-Germans.
- Summarize the events of nationalistic movements in various countries in the Middle East and India.
- Explain the efforts in Latin America to achieve greater independence from the United States.

Unit 9

- Summarize events leading up to the advent of World War II.
- Explain the results of Allied appeasement in regards to Nazi Germany during the 1930s.
- Summarize the events of the early years of World War II.
- Explain the United States' motivation for entry into World War II.

- Summarize the events of World War II.
- Identify the events which brought about the end of the war.
- Identify factors leading to the Cold War.
- Describe factors leading to the creation of East and West Germany.
- Summarize the events of the Korean War.
- Summarize the events of the Cuban Missile Crisis.
- Summarize the events of the Vietnam War.
- Identify contributing factors to Cold War conflicts.
- Describe social conditions in the USSR and its satellite states.

Unit 10

- Identify and describe the events that led up to the end of the Cold War.
- Identify factors that contributed to the decline of the USSR.
- Identify and describe the factors leading to the collapse of Communism.
- Describe the events leading to the formation of the Confederation of Independent States.
- Describe the events and factors which contributed to the recovery of European economies.
- Describe the political changes in England, France and Germany after World War II.
- Identify and describe the economic changes in Latin America in the twentieth century.
- Describe the leading political movements in Latin America in the twentieth century.
- Identify and describe the factors leading to the independence of African nations.
- Identify and describe the challenges to political and economic stability in many African nations.
- Identify and describe the events leading to the end of apartheid.
- Identify and explain challenges to achieving peace in the Middle East.
- Describe the influence of western nations on events in the Middle East.
- Identify and describe events leading to the establishment of Communist China.
- Summarize the leadership of Mao Zedong and his influence on China.
- Identify and describe the factors which contributed to Japan’s rise to an economic world power.
- Identify and describe the impact of existential thought on popular culture and politics.
- Identify recent technological advances and their impact on society and culture.

U.S. History

Unit 1

- Describe the exploration of the Americas by European nations and the development of the thirteen original American colonies.
- Discuss various reasons for the American colonies' desire for independence.
- Discuss the colonial wars, especially the French and Indian War.
- Describe the independence movement in the colonies and the writing of the Declaration of Independence.
- Discuss the Treaty of Paris of 1783 and British recognition of the former colonies as independent states.
- Describe the purpose, adoption, and weaknesses of the Articles of Confederation.
- Describe the Philadelphia Constitutional Convention and the ratification of the Constitution.
- Explain why the Bill of Rights was added to the Constitution.
- Describe the purpose of the Proclamation Line of 1763.
- Describe the scope of the Louisiana Purchase.
- Recount the reasons for and events of the War of 1812.
- Explain the purpose and importance of the Monroe Doctrine.
- Describe the importance of the Missouri Compromise of 1820.
- Describe the importance of the Compromise of 1850 and the Kansas-Nebraska Act of 1854
- Explain the impact of abolitionist writers such as Frederick Douglas and Harriet Beecher Stowe.
- Describe the importance of the Lincoln-Douglas debates.
- Describe the direct and indirect results of the Presidential election of 1860.
- Explain the purpose of the Anaconda Plan.
- Review the major events of the Civil War period.
- Describe the impact of the Emancipation Proclamation and the Gettysburg Address.
- Describe events of the Lincoln Assassination and the fate of the conspirators.
- Describe the phases of the Reconstruction.
- Describe the purpose and the passage of the Thirteenth and Fourteenth Amendments.
- Describe and explain the purpose of the Black Codes.
- Explain the purpose and importance of the Freedmen's Bureau.

Unit 2

- Explain the reasons for westward migration in the United States.
- Describe the part the railroads played in westward migration.
- Describe the construction of the first transcontinental railroad.
- Describe changes in the United States due to the railroads.
- Describe the factors that led to the disappearance and filling of the frontier.
- Explain the role of mining in populating the Great Plains.

- Describe the cattle boom of the 1870s and 1880s.
- Identify new states formed in the Great Plains during the period from 1865–1890.
- Describe the menace faced by Native Americans on the Great Plains due to white settlement.
- Recount the events of the Great Sioux War of 1876.
- Evaluate the purposes of the Dawes Act.
- Describe changes in the nation due to industrialization.
- Summarize factors that led to migration toward cities.
- Describe conditions in the factories, including the use of child labor.
- Evaluate key statistics concerning immigration.
- Explore the inventions of 19th and 20th century inventors.
- Describe changes in agriculture that led to increased productivity.
- Define basic terms in the study of economics and the capitalistic system.
- Describe the growth of business empires in the 19th century.
- Analyze the rise of government control over business in the United States.
- Explain the importance of advances in communication.

Unit 3

- Describe political and domestic events after the Reconstruction.
- Compare and contrast the views of Booker T. Washington and W. E. B. Du Bois.
- Recount the events of the Great Railroad Strike of 1877.
- Describe the Desert Land Act and the Timber and Stone Act.
- Examine editorial cartoons.
- Explain the reasons for government involvement in big business.
- Describe the desire to change the money to and from the gold standard.
- Describe the rise of labor unions, collective bargaining, and strikes.
- Describe events that brought the United States to world prominence.
- Describe the events and results of the Spanish American War.
- Explain the role of American missionaries in expanding U.S. influence.
- Describe the problems of rapidly growing cities and the proposed solutions.
- Describe the African Americans' struggle for civil rights, including Plessy v. Ferguson.
- Describe the Progressive Movement and its various aspects.
- Describe the role and importance of the muckrakers.
- List important political developments for which the Progressives were responsible.
- Describe efforts to bring immigrants into the mainstream of American culture.
- Describe changes in the educational system in the United States.
- Describe the building of the Panama Canal.

Unit 4

- Examine the history of invention in America at the turn of the century, including the electric light bulb and the automobile.
- Analyze the process of mass production through standardization and division of labor.
- Discuss advances in aviation and communication at the turn of the 20th century.

- Explain the basic principles of economic progressivism.
- Recount basic events that demonstrated the domestic policy of Theodore Roosevelt.
- Examine the foreign and domestic policies of President William Howard Taft.
- Examine the Presidency of Woodrow Wilson.
- Analyze the underlying causes of World War I.
- Understand the necessity of U.S. involvement in World War I.
- Examine the steps that the United States took to mobilize for World War I.
- Study the conditions of World War I and recognize the impact the United States made on the war.
- Know the details surrounding the signing of the Treaty of Versailles.
- Analyze the reasons for the failure of the League of Nations.

Unit 5

- Understanding difficulties on the domestic front after World War I.
- Describe the idea of “return to normalcy.”
- Describe accomplishments and scandals of the Harding administration.
- Describe the treaties signed with foreign powers.
- Explain prohibition and its effects, including the flapper society.
- Describe conditions in the United States during the Coolidge administration.
- Explain the ideas of nativism and eugenics.
- Describe foreign affairs in the 1920s.
- Describe cultural changes in the United States during the 1920s, including the Harlem Renaissance and women’s suffrage.
- Explain the importance within the culture of the Scopes trial.
- Discern the factors that led to the stock market crash of 1929 and its effects.
- Describe the factors that led to the Great Depression.
- Describe the effects of the Great Depression on the lives of people and explain President Hoover’s efforts to aid an economic recovery.
- Describe the causes and effects of the Dust Bowl.
- Explain Franklin D. Roosevelt’s efforts to deal with the Great Depression.
- List and describe New Deal agencies.
- Review information regarding the Presidents from Abraham Lincoln to Franklin D. Roosevelt.

Unit 6

- Reflect on the administration and leadership of President Franklin D. Roosevelt.
- Describe the events that led to World War II.
- Explain the rise of dictatorships in Europe and the militarism of Japan.
- Explain the alignments of the Allied and Axis Powers.
- Describe appeasement and its results.
- Describe early actions of World War II, including the Miracle at Dunkirk.
- Recount events that led the United States into World War II.
- Describe the impact of World War II on the American way of life.
- Understand and consider the events of the Holocaust.

- Describe the theaters of World War II.
- Reflect on the determination of the British people.
- Describe the internment of Japanese Americans.
- Describe the events that ended the war in Europe.
- Describe the events that ended the war in the Pacific.
- Describe the celebrations in America at the end of World War II.

Unit 7

- Understand events that occurred during World War II that shaped the culture of the United States.
- Examine weapons development in the United States.
- Examine the outstanding leadership of the United States that led to success in the war.
- Describe the founding and structure of the United Nations.
- Explain the purpose and results of the Nuremberg Trials.
- Explore changes in American culture during World War II.
- Describe roles of minorities during World War II.
- Describe changes in religious toleration during World War II.
- Explain the contributions of Eleanor Roosevelt.
- Explain the term Cold War.
- Describe events in Berlin after World War II.
- Describe communist threats in the United States.
- Describe the progress made by minority groups in America in the late 1940s and early 1950s.
- Describe reasons for and results of the economic boom of the 1950s.
- Recount the rise of the entertainment industry.

Unit 8

- Describe the events of the Cold War that occurred during the Eisenhower administration.
- Describe the domino theory, MAD, and brinkmanship.
- Explain the reasons for covert actions to combat communism.
- Describe society in the 1950s.
- Explain the reasons for the development of the interstate highway system.
- Describe the importance of the space race to the United States and the Soviet Union.
- Describe the progress made on civil rights in the 1950s.
- Explain the effect of Supreme Court decisions on segregation.
- Review developments in the Cold War during the Kennedy administration.
- Describe the purpose of the New Frontier.
- Recount the events of the Kennedy assassination.
- Describe the meaning and importance of the Civil Rights Act of 1964 and the Voting Rights Act of 1965.
- Explain how the United States became involved in the war in Vietnam.

- Describe the Great Society and list programs that began as a result of legislation during the Johnson administration.
- Describe the race to the moon.
- Recount the events leading to the end of legal segregation.
- Compare and contrast the period of nonviolence with the period from 1965–1968 in the civil rights movement.
- Compare and contrast the Supreme Court during the Warren years with that which had existed earlier.
- Understand key issues that were dealt with by the Warren Court.

Unit 9

- Describe the causes, events, and results of the Vietnam War.
- Describe the political effects of the Vietnam War.
- Describe other foreign policy issues facing the Nixon administration.
- Understand domestic challenges facing the Nixon administration.
- Explain the purpose of the Twenty-sixth Amendment.
- Recount events of and describe the counterculture of the 1960s.
- List reasons for and the objectives of the feminist movement.
- Explain the failure to ratify the Equal Rights Amendment.
- Describe the Supreme Court's ruling in Roe v. Wade.
- List important legislation concerning the environment that was passed in the 1960s.
- Describe the Ecology movement.
- List three issues facing minorities.
- Describe the meaning of affirmative action and explain opposition to it.
- Understand Native American rights issues addressed in the 1960s and 1970s.
- Compare and contrast discrimination based on race with discrimination based on class.
- Recount the work of leaders in the movement for Hispanic civil rights.
- List and describe court cases involving public school education.
- Explain parental rights vs. states' interests in education.
- Describe the Watergate scandal.
- Explain the reasons for President Nixon's resignation.

Unit 10

- Discuss the events of the Presidential administrations of Gerald Ford and Jimmy Carter.
- Describe the causes and meaning of stagflation.
- Explain the reasons and resolution of the Iran hostage crisis.
- Understand the culture of the 1970s and 1980s.
- Compare and contrast conservatism vs. liberalism.
- Describe the movements that led to a rise in conservatism.
- Explain the term "Reaganomics."
- Discuss events of the Ronald Reagan administration.
- Discuss events of the George H. W. Bush administration.

- Describe Operation Desert Storm.
- Discuss events of the William Clinton administration.
- Discuss the Contract with America.
- Explain the charges brought against Bill Clinton in his impeachment trial.
- Discuss events of the George W. Bush administration.
- Describe the War on Terror.
- Discuss events of the Barack Obama administration.
- Describe the reason for the unpopularity of the Affordable Care Act.
- Compare and contrast globalism and nationalism.
- Describe issues that lead to globalism.
- Explain the importance of being involved as a citizen and describe ways to do it.
- List and explain the five values critical to the success of the United States as described by Alexis de Tocqueville.

Government – 2nd Edition

Unit 1

- Identify the elements of government.
- Explain the importance of the state of nature, natural law, and natural rights in influencing the theories surrounding the creation of states.
- Recognize the various ways in which governments can be classified.
- Identify the fundamental principles on which democracy is built.
- Contrast the major economic systems that exist in the world today.
- Examine major historical documents to determine how they relate to the political development of the U.S. government.
- Identify the importance of colonization of North America by the British Empire.
- Explain how America's democratic government developed from 13 self-governing colonies.
- Identify the roles of influential individuals in laying the framework of the U.S. Constitution.
- Describe why a new government was needed to preserve the Union.
- Analyze how the distribution of power in the Articles of Confederation affected the order and security of the Union.
- Identify ways that the Articles of Confederation influenced the creation of the Constitution of the United States.
- Analyze the compromises and debates during the creation of the U.S. Constitution.

Unit 2

- Analyze the reasons why the Articles were no longer sufficient in governing the United States.
- Identify the importance of compromise in the creation of the Constitution.
- Outline the positions of the Federalists and the Anti-Federalists.
- Explain how various writings swayed public opinion toward eventual ratification of the Constitution.
- Recognize the reasons for the establishment of the Electoral College.
- Articulate the importance of the Constitution in safeguarding individual rights and liberties.
- Identify the principles upon which the Framers based the Constitution.
- Describe the advantages and disadvantages of a federal system.
- Describe the four types of federalism.
- Explain how the Constitution distributes power between the national and state governments.
- Analyze the impact of landmark court cases during the early stages of the governing process.
- Diagram how the Constitution may be formally and informally amended.
- Identify civil rights guaranteed by the Constitution.
- Analyze the ways that courts guard liberties through interpretation and application of the law.
- Describe how due process has extended the protection of civil rights.
- Describe the impact of the guarantees found within the First Amendment.

- Outline the historical development of efforts to reduce discrimination in the United States.

Unit 3

- Describe the structure of Congress as defined the Constitution.
- Distinguish the enumerated and shared powers of the legislative branch.
- Compare the influence of the majority and minority political parties in Congress.
- Contrast the responsibilities of each house of Congress.
- Diagram the process a bill undergoes to become a law.
- Describe the dependency of the legislative and the executive branches on each other for the lawmaking process.
- Assess why the Framers established the executive branch with fewer enumerated powers than the legislative branch.
- Outline the electoral process system in determining the President and vice president.
- Identify the role of the federal bureaucracy in overseeing governmental policies.
- Describe the basic role of the judiciary in the governmental process.
- Illustrate the structure and the function of the constitutional courts.
- Compare and contrast federalism in the dual structure of the national and state court system.
- Describe the role of the Supreme Court and the importance of judicial review in the American system of government.
- Outline the process by which federal judges are selected.

Unit 4

- Identify why political parties are an essential component of democracy.
- Outline how political parties have evolved and shaped current politics.
- Describe the connection between political parties and public policy.
- Analyze the role of interest groups in the governing process.
- Evaluate how interest groups and political parties differ.
- Explain how public opinion reflects a representative democracy.
- Analyze how public opinion is measured through statistical research.
- Compare and contrast the differences in the political spectrum and the labels of liberal, moderate, and conservative.
- Describe how a political culture is formed.
- Define the roles of equality, liberty, and individualism in a democratic state.
- Examine the factors that influence why voters choose to participate in the electoral process.
- Compare and contrast personal responsibilities with civic duties and responsibilities of citizens in a constitutional democracy.
- Evaluate how civic responsibility has an effect on personal freedom.
- Evaluate how civil disobedience can protect civil liberties.
- Examine the influence of social movements in the preservation of civil rights.

Unit 5

- Explain how the U.S. Constitution defines the relationship between state and federal governments.
- Compare the structure of the state government to the federal government structure.
- Describe how governmental regulation affects the relationship between the units of government.
- Differentiate the powers reserved and shared by the federal and state governments.
- Identify how state governments provide for local governments.
- Describe how revenue is generated to support the state and local levels of government.
- Distinguish the characteristics and structures of different economic systems.
- Describe how the government manages its monetary and fiscal policies.
- Outline the complexities of the federal budget process.
- Identify the complexities of reforming the federal budget.
- Describe the importance of domestic programs.
- Describe the importance of the role of various social policies in improving the lives of Americans.
- Compare and contrast foreign policy ideologies that reflect the period of time and the political philosophy of the administrations.
- Summarize the importance of maintaining a technological edge in scientific discoveries.

Economics – 2nd Edition

Unit 1

- Understand how the government spends money.
- Understand how consumers, companies, and countries make economic decisions.
- Describe the rights and responsibilities that consumers have.
- Discern good credit from bad credit.
- Understand the components and consequences of borrowing money.
- Understand the four major economic systems used today.
- Discuss the ideas of those who created the command and market economies.
- Understand the faults of the Articles of Confederation in relation to economic issues.
- Understand how the U.S. Constitution addresses economic issues.
- Explain the economic contributions of Alexander Hamilton.
- Understand the business cycle and its impact on our country's history.
- Explain the major economic downturns in U.S. history.

Unit 2

- Understand the three questions all economies must answer.
- Explain the nature of competition and the different types of monopolies.
- Understand the U.S. government's measures against monopolies.
- Explain what money is and what three main functions it serves.
- Explain the different types of money and other means of payment used by individuals, companies, and governments.
- Discuss the history of banking and the different types of banks seen in the United States today.
- Explain the history behind the creation of the Federal Reserve System.
- Explain the intricate nature of the Fed and the setting of the United States' monetary policy.
- Understand the nature of and decisions behind the United States' fiscal policy.

Unit 3

- Identify the importance of demand in an economy.
- Illustrate demand in both a schedule and a curve, and know why a demand curve functions the way it does.
- Explain the various factors beyond price that impact demand for a particular product.
- Examine the importance of supply in an economy.
- Illustrate supply in both a schedule and a curve, and know why a supply curve functions the way it does.
- Explain the various factors beyond price that impact supply of a particular product.

- Explain the impact of income and substitution on consumer choice.
- Calculate utility and marginal utility for a particular product.
- Use utility calculation to predict business behavior.
- Explain the different types of costs and profits that are considered in the success of a business.
- Calculate the factors that are used to determine the success of short-term moves, such as returns and costs.
- Explain and calculate the nature of long-term decisions made by companies.

Unit 4

- Explain the circular flow model and its interconnectedness.
- Explain and calculate the consumer price index.
- Explain the business cycle.
- Explain aggregate demand and aggregate supply.
- Analyze the progression of government growth and involvement in the economy.
- Explain the four economic functions of government.
- Explain several different types of taxes levied by the government and the standards that govern who pays and how much is paid.
- Compare and contrast the four major theories on the causation of inflation.
- Compare and contrast the four different types of unemployment measured by the government.
- Explain the relationship between the inflation rate and the unemployment rate as explained by the Phillips Curve.
- Describe the relationship between the unemployment rate and real GDP as explained in Okun's Law.
- Explain and calculate the differences between absolute and comparative advantage.
- Explain how the production possibilities frontier illustrates trade and comparative advantages.
- Explain the advantages and disadvantages to international trade.

Unit 5

- Survey the types, benefits, and detriments of the various types of accounts offered by banks.
- Apply banking skills in writing checks and reconciling bank accounts.
- Distinguish between the different types of loans, as well as the responsibilities and risks in borrowing money.
- Identify ways to properly manage debt and build a good credit history.
- Assess the long-term costs and benefits of postsecondary education.
- Appraise the different ways to fund postsecondary education, including government aid through the Free Application for Federal Student Aid (FAFSA).
- Identify the benefits, costs, and responsibilities associated with the following: renting a place to live, buying a home, and purchasing insurance.
- Understand the costs and benefits associated with charity donations.
- Identify stock and bond markets and describe their role in the economy.

- Identify and assess the relative merits of various types of investments used to build wealth.
- Survey the methods of investing, including financial planners, brokers, and self-directed investing.
- Recognize how corporations raise money through stocks and bonds.
- Differentiate between the different types of business models and the advantages and disadvantages of each.
- Describe the economic rights and responsibilities of a business, particularly a small business.

Arkansas State History

Unit 1

- Identify Arkansas's physiographic provinces and regions.
- Describe characteristics of Arkansas's physiographic provinces and regions.
- Identify prehistoric traditions and cultures found in Arkansas.
- Describe cultural characteristics of prehistoric Arkansans.
- Identify precontact cultures living in Arkansas.
- Describe cultural characteristics of precontact cultures in Arkansas.
- Identify early European explorers who traveled through Arkansas.
- Outline the reasons why Europeans explored Arkansas.
- Describe ways that European explorers left a lasting impact on Arkansas.
- Outline the events leading to the formation of the Arkansas Territory.
- Describe the effect of early 19th century events in Arkansas including the New Madrid earthquakes.
- Identify leaders of the Arkansas Territory.
- Describe events that affected Arkansas during its territorial days and led it toward statehood.

Unit 2

- Analyze arguments and legislation used to justify the removal of Native Americans.
- Identify the events and impact of the removal of eastern Native American tribes to the Indian Territory.
- Describe consequences of the Indian Removal Act on western Native American nations.
- Identify arguments for and against Arkansas statehood.
- Outline events leading to Arkansas statehood.
- Identify key events in the early days of Arkansas statehood.
- Identify events leading to the American Civil War.
- Describe the process that led to Arkansas's secession.
- Identify events in the early months of the American Civil War.
- Identify events related to major military battles and campaigns in Arkansas during the American Civil War.
- Describe how the results of military battles and campaigns changed the course of the war in Arkansas.
- Outline events in Arkansas during the latter years of the American Civil War.
- Describe the causes and effects of the *Sultana* disaster.
- Identify the contributions of Arkansas soldiers during the American Civil War.
- Describe aspects of life in Arkansas during the American Civil War.
- Explain the importance of the Thirteenth Amendment.

Unit 3

- Describe the effects of emancipation and Reconstruction in Arkansas.
- Describe how the sharecropping system trapped farmers in poverty.
- Identify events that brought about the end of Reconstruction in Arkansas.
- Describe important elements of the Arkansas Constitution of 1874.
- Analyze symbolism found in the Great Seal of the State of Arkansas.
- Identify Arkansas symbols and insignia and explain their meaning or importance.
- Identify political developments in Arkansas from the end of Reconstruction to the end of the 19th century.
- Describe economic changes brought about by railroads and farmers' political organizations.
- Describe societal changes brought about by Jim Crow laws, land-grant schools, and Judge Isaac Parker's court.
- Describe the effect of the Progressive Movement in Arkansas.
- Identify economic developments in Arkansas in the early 20th century.
- Describe the effect of World War I in Arkansas.
- Identify Arkansans who were distinguished for heroic actions during World War I.
- Outline the events of the Elaine Race Massacre.

Unit 4

- Identify social events and issues that affected Arkansas during the 1920s.
- Describe key economic activity in Arkansas during the 1920s.
- Describe the effect of the Flood of 1927 on Arkansas.
- Identify social events and issues that affected Arkansas during the Great Depression.
- Describe the role of the federal government in Arkansas during the Great Depression.
- Describe the effect of the Drought of 1930−31 on Arkansas.
- Identify social events and issues that affected Arkansas during World War II.
- Describe ways that Arkansans contributed to Allied victory during World War II.
- Describe how soldiers from Arkansas participated in freeing Holocaust survivors from concentration camps.
- Identify social events and issues that affected Arkansas in the years after World War II.
- Describe the growth of key economic activity in Arkansas after World War II.
- Describe social events and issues that affected Arkansas during the modern civil rights era.
- Identify leading civil rights movement activists from Arkansas and describe their contributions.
- Identify social events and issues that affected Arkansas in the latter decades of the 20th century.
- Identify leaders and entrepreneurs who had a lasting impact on the state of Arkansas.

Unit 5

- Describe key 21st century events in Arkansas.
- Identify Arkansans who have run for president of the United States.
- Survey characteristics of selected Arkansas cities and towns.
- Describe the impact of the agriculture and education industries on Arkansas's economy.
- Identify historical entrepreneurs who have contributed to Arkansas industries.
- Describe the impact of the health care, technology, and transportation industries on Arkansas's economy.
- Describe the role of lakes and rivers in making Arkansas an outdoor enthusiast's paradise.
- Identify and describe the significance of National Park units in Arkansas.
- Describe Arkansas destinations that hold historical significance.
- Identify Arkansans who have made major contributions to American culture.
- Describe Arkansas state symbols related to music.

African American Studies

Unit 1

- Understand ancient African geography and history.
- Identify different groups of Indigenous and ancestral African people.
- Explain the history of ancient African people, including their educational systems and family structures.
- Understand ancient Africa's role in global trade.
- Understand ancient Africa's resources and notable accomplishments.
- Identify early African contributions to the advancement of civilization.
- Analyze the effects of dehumanization through the capture, trade, and enslavement of African peoples.
- Identify and analyze causes of the African diaspora.
- Describe the impact of the Middle Passage on African American culture.
- Identify and explain the physical, human, and geographic factors that contributed to the transatlantic slave trade.
- Understand the aftermath of colonization in the Americas.
- Explain the relationship between enslaved Africans and Native Americans.
- Identify aspects of diversity in African American ancestry.
- Describe and explain various forms of resistance against slavery.
- Identify abolition movements.
- Understand the roles of Blacks during the Revolutionary War.
- Analyze the rationale behind expanding slavery while fighting for independence from Britain.
- Explain how Blacks were affected by the Revolutionary War.
- Explain the growth and development of slavery in the Americas.
- Describe the impact of the Three-Fifths Compromise.
- Describe the impact of the Fugitive Slave Act.

Unit 2

- Analyze arguments concerning slavery that were debated while preparing the Declaration of Independence.
- Compare domestic and international movements regarding slavery during the 1800s.
- Explain how slavery shaped the westward expansion of the United States.
- Analyze the continued economic dependency on slavery in the United States.
- Discuss the moral and financial conflicts of slavery.
- Analyze the impact of the Fugitive Slave Acts.
- Describe notable resistance that took place in the 1800s, which reflected that enslaved people desired freedom.
- Summarize the efforts of abolitionists.
- Describe the organization and purpose of the Underground Railroad.
- Describe and analyze the impact of antiliteracy laws.
- Give examples of obstacles that African Americans faced in education.
- Analyze the role of African American literature in American culture.

- Identify the origins of African American literature.
- Name notable early African American writers and their contributions to literature.
- Discuss contributions by free and enslaved African Americans to science, philosophy, mathematics, and technology.
- Summarize the various ways African Americans contributed to the American economy aside from slavery.
- Explain patents and their relation to economic development.
- Summarize the relationship between Black people and patents in early America.
- Name Black inventors and the inventions that they patented in the 1800s.

Unit 3

- Explain the United States' economic dependency on slavery.
- Discuss the moral and financial contradictions of slavery convictions.
- Explain nationalism and sectionalism ideals pre-Civil War.
- Analyze the formation of various societies during the antebellum period.
- Discuss the capitalist enterprises founded by free Blacks during the antebellum period.
- Identify and analyze events that widened the divide between North and South.
- Describe how the 1860 presidential election led to secession.
- Describe the experience of enslaved soldiers during war.
- Describe the role of Black soldiers during the American Civil War.
- Analyze the impact of the Confiscation Act of 1861 and 1862.
- Describe and analyze the views and structure of the Union army.
- Describe and analyze the views and structure of the Confederate army.
- Discuss the experiences of African American women during the Civil War.
- Analyze the role of African American spies during the Civil War.
- Describe the events leading to the Emancipation Proclamation.
- Summarize the importance of the Thirteenth Amendment.
- Analyze the fate of enslaved people post-Civil War.

Unit 4

- Describe President Lincoln's plan for Reconstruction.
- Discuss the significance of Lincoln's assassination and what it meant for Reconstruction.
- Compare and contrast Andrew Johnson's Reconstruction plan with Abraham Lincoln's plan.
- Compare and contrast the congressional Reconstruction plan with President Johnson's and President Lincoln's plans.
- Analyze the successes and failures of the Reconstruction plans.
- Identify methods used to disenfranchise Blacks.
- Discuss the motives behind the growing violence against African Americans.
- Explain the impact of White supremacy on Reconstruction.
- Explain Black Codes and describe how they impacted Reconstruction and race relations in the United States.
- Analyze the relationship between landownership and freedom.

- Analyze the intent and implementation of the Fourteenth and Fifteenth Amendments.
- Identify examples of progress initiated by Blacks during Reconstruction.
- Explain the push and pull factors of Black westward migration.
- Describe the contributions of Black politicians during Reconstruction.
- Summarize the Compromise of 1877.
- Give an opinion on the successes and failures of Reconstruction.

Unit 5

- Explain the significance and cultural impact of the Black theater.
- Analyze how media and entertainment perpetuated stereotypes and racism.
- Discuss the impact of stereotypes on past and present-day society.
- Discuss the origin of Jim Crow laws.
- Analyze the impact of segregation on both Black and White Americans.
- Explain scientific racism and how it impacted laws and social status.
- Discuss the ideology that fueled Jim Crow laws.
- Describe the Exodusters and their historical contributions.
- Discuss why African Americans migrated to the West and Africa.
- Discuss what life was like for African Americans after migrating to the West and Africa.
- Describe how government policies affecting Native Americans on the Trail of Tears also affected African Americans.
- Identify the role that Black soldiers and settlers played in the settlement of the Oklahoma Territory.
- Explain the Populist Party's role in advancing African Americans' political interests.
- Analyze the causes and consequences of the Wilmington insurrection.
- Analyze the motives for violence towards African Americans in Jim Crow regions.
- Describe efforts by reformer Ida B. Wells to document and end lynchings.
- Describe the issues faced by Black women and the solutions created to solve them.
- Identify examples of Black women leaders during the late 1800s.
- Discuss early leaders and organizations formed during the Jim Crow era to advance the quality of life for African Americans.
- Analyze the present-day impact of the United Daughters of the Confederacy.
- Discuss the Lost Cause and how the theory shaped history.

Unit 6

- Compare and contrast the ways Blacks and Whites viewed racial equality in the early 1900s.
- Identify the factors fueling violence and riots.
- Explain the causes of forced migration of African Americans.
- Compare and contrast the treatment of African American soldiers with that of their White counterparts.
- Describe the role and impact of African American soldiers during World War I.
- Describe the role of African American soldiers during World War I.

- Compare and contrast the treatment of African Americans during and after World War I.
- Analyze the conflict for Black soldiers fighting to defend democracy abroad.
- Identify conditions contributing to race riots after World War I.
- Analyze the effect of race riots on unity and the U.S. economy.
- Explain the cost of race riots emotionally, socially, and economically.
- Explain the development of Black Wall Streets.
- Analyze efforts to diminish successful all-Black towns.
- Describe how racist violence targeting Black Wall Streets impacted the Black communities in which they were found.
- Identify factors contributing to the Great Migration.
- Describe how life changed for African Americans after migrating north.
- Identify individuals and their literary contributions to the Harlem Renaissance.
- Analyze how the Harlem Renaissance impacted Black and American culture.
- Identify individuals and their musical contributions to the Harlem Renaissance.
- Analyze how the Jazz Age of the Harlem Renaissance impacted Black and American culture.
- Identify individuals and their artistic contributions to the Harlem Renaissance.
- Analyze how the dancers and artists of the Harlem Renaissance impacted Black and American culture.

Unit 7

- Identify the impact of the Great Depression on African Americans and Black communities.
- Analyze the disparities of White and Black workers during the 1930s.
- Describe how the New Deal affected African Americans' quality of life.
- Identify the contributions of key leaders in Black communities during the Great Depression.
- Compare and contrast how the New Deal assisted Black and White Americans.
- Analyze the failures or successes of the New Deal.
- Discuss how the policies and practices of the New Deal impact present-day economics.
- Identify the Black Cabinet and its significance in American politics.
- Discuss political changes during this time period.
- Identify legislative attempts to end lynching.
- Analyze the social views of lynching.
- Describe key events that changed lynching practices in the United States.
- Describe Black cultural contributions during the Depression era.
- Identify the role music played in advancing race relations.
- Identify Black cultural contributions during the Depression era.
- Analyze the role sports played in race relations.
- Compare and contrast the conditions of White and Black war workers.
- Identify significant military contributions by Black Americans during World War II.
- Compare and contrast the living and working conditions of White and Black laborers during World War II.
- Explain the factors leading to the Second Great Migration.

- Discuss the progress for African Americans towards civil rights after World War II.
- Detail legislation passed regarding postwar civil rights of African Americans.

Unit 8

- Describe the relationship between media and race relations and the impact of race relations on media.
- Analyze ways Black Americans were represented by the media.
- Describe the events surrounding the murder of Emmett Till.
- Identify examples of civil rights demonstrations.
- Describe the impact of peaceful protests.
- Analyze the success and failures of civil rights protests.
- Describe the events and effect of the March on Washington for Jobs and Freedom.
- Analyze the purpose of the Freedom Summer of 1964 and reactions to this effort.
- Describe major events of the Selma marches and the effect of Selma marches on advancing civil rights.
- Analyze reactions to the Selma marches, as well as the marches' positive results.
- Describe the causes and effects of the 1967 Long Hot Summer riots.
- Identify significant Supreme Court decisions affecting civil rights in the 1950s and 1960s.
- Identify key provisions of landmark civil rights legislation.
- Describe attempts to stifle civil rights legislation.
- Distinguish how the Voting Rights Act of 1965 was a key piece of civil rights legislation.
- Identify key contributors in the modern civil rights movement.
- Explain the impact of contributions made by activists in the modern civil rights movement.
- Describe Black Pride cultural movements including Black is Beautiful and Black Power.
- Describe the formation and goals of the Black Panther Party.
- Explain the role that the Federal Bureau of Investigation (FBI) played in monitoring, infiltrating, and subverting Black organizations.
- Identify key Supreme Court cases affirming the desegregation of schools.
- Describe the challenges faced and perseverance exhibited by the Little Rock Nine when integrating the Little Rock School District.
- Discuss how historical practices such as redlining have led to disparities in home ownership amongst Black and White Americans.
- Identify government efforts, such as the National Housing Act and the Fair Housing Act, that have affected housing practices.

Unit 9

- Discuss the impact of disparity in African American communities.
- Analyze the education gaps between Black and White communities.

- Describe the correlations between stereotypes and de facto practices in health care.
- Analyze the reactions of White Americans to the progression of Black Americans after the civil rights movement.
- Explain disparities and the impact of bias in policing.
- Analyze the Violent Crime Control and Law Enforcement Act of 1994.
- Discuss how racism affects the rate of imprisonment of African Americans.
- Identify key political and social leaders.
- Understand the significance of social and political leaders in the African American community.
- Identify the cause and effect of events such as riots and marches.
- Analyze the effectiveness of responses such as marches and riots.
- Explain how Black literary works and the arts affected American society.
- Describe expressions of self-identity contributed by African Americans.
- Identify key storytellers of this time period.
- Discuss the contributions of African American storytellers.
- Explain the importance of storytelling to African Americans.
- Discuss various ways African American culture impacts American culture as a whole.
- Identify key artists and their contributions to art, music, fashion, and sports in this era.
- Analyze the significance of African Americans gaining political offices.
- Describe the political accomplishments of African Americans as they relate to the struggle of disenfranchisement over the decades.

Unit 10

- Analyze the significance and associations of identity nomenclature relevant to African Americans such as Negro, Black, and African American.
- Identify ways African Americans have incorporated African traditions into their American culture.
- Describe examples of ways African American culture has impacted mainstream culture.
- Describe the significance of historical monuments, museums, and tributes to African Americans.
- Analyze the debate over the removal of Confederate statues as it relates to American history and to social challenges for African Americans today.
- Compare and contrast the views of those who support and those who oppose the removal of Confederate statues.
- Describe the progress and challenges for African Americans economically and politically in the early 21st century.
- Identify African Americans who made important contributions in the 2000s.
- Summarize the impact of the United States electing its first Black president.
- Describe the effect of natural disasters and environmental crises on Black communities.
- Identify examples of how the government missed critical opportunities to serve Black communities during natural disasters and environmental crises.
- Explain the rise of racial justice protests in the 21st century.

- Identify the role that social media plays in activism.
- Compare and contrast the racial consciousness of various groups in American society.
- Identify examples of police brutality inflicted on Black Americans.
- Explain the origins of distrust for law enforcement in some underserved communities.
- Describe consequences and outcomes of high-profile police brutality cases.
- Explain the CROWN Act.
- Describe key executive orders issued and legislation considered or passed in the 21st century to combat discrimination.
- Describe the cultural movement to rebrand racist brands.
- Identify attempts to increase representation in popular culture and Hollywood.
- Describe positive trends toward equity and equality.

Ethnic Studies

Unit 1

- Recognize factors that contribute to identity.
- Describe the relationship between race and ethnicity.
- Explore theories of ethnicity.
- Identify historical events that have shaped Native American identity.
- Identify cultural characteristics shared by many Native Americans.
- Learn regional cultural characteristics of Native Americans.
- Identify historic Native Americans who have served as role models.
- Identify examples of food, clothing, and other elements that are part of Native American culture.
- Identify Native American contributions to American culture through art, architecture, pop culture, music, sports, and inventions.
- Write an essay analyzing a Native American folktale.

Unit 2

- Identify historical events that have shaped African American identity.
- Identify cultural characteristics shared by many African Americans.
- Recognize stereotypes and forms of discrimination faced by African Americans.
- Identify historical African Americans who have served as role models.
- Identify examples of food, clothing, and other elements that are part of African American culture.
- Identify African American contributions to American culture through art, architecture, pop culture, music, sports, and inventions.
- Create a brochure promoting an ethnic museum.

Unit 3

- Identify historical events that have shaped Hispanic American identity.
- Identify terminology used to describe Hispanic Americans.
- Identify cultural characteristics shared by many Hispanic Americans.
- Identify historical Hispanic Americans who have served as role models.
- Identify examples of food, clothing, and other elements that are part of Hispanic American culture.
- Identify Hispanic American contributions to American culture through art, architecture, pop culture, music, sports, and inventions.
- Collect and document oral family history through an interview and presentation.

Unit 4

- Identify historical events that have shaped Asian American and Pacific Islander identity.
- Identify terminology used to describe Asian Americans and Pacific Islanders.

- Identify cultural characteristics shared by many Asian Americans and Pacific Islanders.
- Identify historical Asian Americans and Pacific Islanders who have served as role models.
- Identify examples of food, clothing, and other elements that are part of Asian American and Pacific Islander culture.
- Identify Asian American and Pacific Islander contributions to American culture through art, architecture, pop culture, music, sports, and inventions.
- Analyze a song or work of art created by an Asian American or Pacific Islander artist.
- Create an original poem, visual artwork, or lyrics for a song.

Unit 5

- Identify historical events that have shaped MENA American identity.
- Identify terminology used to describe MENA Americans.
- Identify cultural characteristics shared by many MENA Americans.
- Identify MENA Americans who have served as role models.
- Identify examples of food, holidays, and other elements that are part of MENA American culture.
- Identify MENA American contributions to American culture through art, architecture, pop culture, music, sports, and inventions.
- Create a commercial for radio, television, or another visual media source highlighting the contributions made by members of an ethnic group to mainstream American culture.

Kindergarten Science

Unit 1

- What science is
- What scientists are and what they do
- Science tools and what they are used for
- Science safety rules and why they are important
- The five senses and the body parts used for each
- How scientists use their five senses to observe
- How objects are made up of one or more materials
- What litter is
- Why litter is a problem for animals, humans, and the earth
- Ways to reduce waste
- Solutions to the litter problem

Unit 2

- Characteristics of animals
- Characteristics of living things
- Characteristics of nonliving things
- Basic animal needs
- Basic parts of an animal
- Body coverings

Unit 3

- Plants
- Parts of plants
- Sort plants
- Plant needs
- Young and parent plants
- Plant growth

Unit 4

- Matter
- Taste
- Smell
- Size
- Weight
- Color
- Shape
- Texture
- Melt
- Freeze

Unit 5

- Rocks
- Rock size and shape
- Rock color and texture
- Uses for rocks
- Soil
- Uses of soil

Unit 6

- Water properties
- Finding water
- Bodies of water
- Uses for water
- Uses for water

Unit 7

- Objects in the sky
- Stars
- Day and night
- Our moon
- Moon phases

Unit 8

- Weather
- Clouds
- Types of weather
- Thermometers
- Seasons
- Four seasons

Unit 9

- Position
- Motion
- Patterns of motion
- Fast and slow
- Magnets
- Magnetic things

Unit 10

- Energy

- Light Energy
- Heat Energy
- Sound Energy

Kindergarten Science – 2nd Edition

Unit 1

- I will learn what science is and what scientists are and do.
- I will learn about what science tools are used for, and why safety rules are important.
- I will learn about the five senses and how scientists use their five senses to observe.
- I will learn how objects are made up of one or more materials.
- I will learn about litter and why it is a problem for the earth.
- I will learn about ways to reduce waste and solutions to the litter problem.

Unit 2

- I will learn about the characteristics of animals.
- I will learn about the characteristics of living and nonliving things.
- I will learn about basic animal needs.
- I will learn about the basic parts of people and animals.
- I will learn about the basic parts of an animal.
- I will learn about body coverings.

Unit 3

- I will learn about plants.
- I will learn about the parts of plants.
- I will learn how plant parts work together in a system.
- I will learn about plant needs.
- I will learn about young plants and parent plants.
- I will learn about plant growth.

Unit 4

- I will learn about matter.
- I will learn about taste and smell.
- I will learn about size and weight.
- I will learn about color and shape.
- I will learn about texture.
- I will learn about melting and freezing.

Unit 5

- I will learn about rocks.
- I will learn about rock size and shape.
- I will learn about rock color and texture.

- I will learn about uses for rocks.
- I will learn about soil.
- I will learn about the uses of soil.

Unit 6

- I will learn about the properties of water.
- I will learn about where water can be found.
- I will learn about bodies of water.
- I will learn about the uses for water.
- I will learn about ways to save water.

Unit 7

- I will learn about objects in the sky.
- I will learn about stars.
- I will learn about day and night.
- I will learn about our moon.
- I will learn about moon phases.

Unit 8

- I will learn about weather.
- I will learn about clouds.
- I will learn about types of weather.
- I will learn about thermometers.
- I will learn about seasons.
- I will learn about the four seasons.

Unit 9

- I will learn about position.
- I will learn about motion.
- I will learn about patterns of motion.
- I will learn about fast and slow.
- I will learn about engineers and magnets.
- I will learn about magnetic things.

Unit 10

- I will learn about energy.
- I will learn about light energy.
- I will learn about heat energy.
- I will learn about sound energy.

1st Grade Science

Unit 1

- Describe what scientists do.
- Understand how scientists use their five senses.
- Observe pictures like a scientist.
- Measure and order objects like a scientist.
- Compare and sort like a scientist.
- Compare and sort like a scientist.
- Make a plan like a scientist.
- Identify different science tools and their uses.
- Understand safety rules for doing science labs.

Unit 2

- Define what matter is.
- Identify objects that are matter.
- Know the definition of mass.
- Compare objects as larger/smaller and heavier/lighter.
- Identify objects by different types of texture.
- Identify objects by their different shapes.
- Know the definition of material.
- Identify objects by different types of materials.
- Know the definition of classify.
- Classify objects by their properties.
- Define solid, liquid, and gas.
- Identify objects as solids, liquids, or gases.
- Identify and predict changes caused by heating.
- Identify and predict changes caused by cooling.

Unit 3

- Describe energy.
- Identify light energy.
- Describe how people use light energy.
- Describe heat energy.
- Identify how people use heat energy and why it is important.
- Describe how heat can change objects.
- Understand how heat can change the temperature.
- Describe sound energy.
- Identify how people use sound and why it is important.

Unit 4

- Find positions.
- Know types of motion.

- Know types of force.
- Know motion can be fast or slow.
- Know magnets.
- Know parts of magnets.
- Find the direction of pull.

Unit 5

- Compare living and nonliving things.
- Know about natural environments.
- Know about resources.
- Know what rocks are.
- Know what products are.
- Know the properties of rocks.
- Know what soil is.
- Know how soil is used.
- Know the properties of soil.

Unit 6

- Define water.
- Know types of water.
- Know about streams.
- Know about lakes.
- Know about oceans.
- Know water can change things.
- Know uses for water.
- Know ways to protect our water.

Unit 7

- Know objects outside the earth.
- Know stars.
- Know the sun.
- Know how many planets are in the solar system.
- Know about the moon.
- Know day and night.
- Define shadow.
- Know the moon has phases.
- Understand other objects are in the sky.

Unit 8

- Know weather.
- Tell wind direction.
- Know how clouds look.

- Know types of precipitation.
- Know thermometers measure temperature.
- Know types of weather.
- Know types of severe weather.
- Know the four seasons.
- Record weather.

Unit 9

- Sort living and nonliving things.
- Know about plants.
- Know plant parts.
- Know animal groups.
- Know animal needs.
- Know an example of external characteristics.
- Know animal characteristics
- Know what a life cycle is.
- Know life cycles for different animals.

Unit 10

- Understand habitats.
- Know land habitats.
- Know water habitats.
- Know people and animals have interdependence.
- Know how plants and animals need each other.
- Know types of eaters.
- Know food chains.
- Keep plants and animals safe.
- Care for Earth.

2nd Grade Science – 3rd Edition

Unit 1

- Learn about observing.
- Learn to ask questions about the world.
- Look for connections.
- Use traits to put things into groups.
- Think about different types of connections.
- Know about engineers.
- Identify four kinds of scientific tools.
- Identify safe lab practices.
- Practice following lab rules.
- Practice following rules for fieldwork.
- Learn about the Celsius (C) and Fahrenheit (F) scales for temperature.
- Read a thermometer.

Unit 2

- Understand what matter and energy are.
- Know the three states of matter: solid, liquid, and gas.
- Identify traits, examples, and uses of solids.
- Identify traits, examples, and uses of liquids.
- Identify traits, examples, and uses of gases.
- Identify physical properties of matter.
- Tell how matter can change states.
- Understand what a system is.

Unit 3

- Understand how forces work.
- Learn about the force called gravity.
- Compare different kinds of motion.
- Objects can change shape when they touch.
- Learn about magnetism.
- Know some of the uses of magnets.
- Understand what makes sound.
- Understand heat energy.
- Understand light energy.

Unit 4

- Learn that water can be in all three states—solid, liquid, and gas.
- Identify fresh water and salt water.
- List the four sources of fresh water—rain, ice, groundwater, and surface water.
- Identify different types of bodies of fresh water.
- Know how fresh water is used.
- Know how salt water is used.
- Learn how water changes from one state to another.
- Know how important it is to care for freshwater resources.

Unit 5

- Understand what a natural resource is.
- Understand renewable and nonrenewable resources.
- Explore man-made resources.
- Understand how materials are combined to make man-made resources.
- Explore different kinds of materials on Earth.
- Explore different kinds of rocks based on color, size, and texture.
- Identify uses of rock.
- Understand soil as an Earth resource.
- Explore soil composition.
- Know the work of a geologist.
- Understand the value of soil.
- List the three primary uses of soil.

Unit 6

- Learn about the sun.
- Show understanding of Earth's rotation.
- Show understanding of Earth's revolution.
- Identify the four seasons in a year.
- Learn about the moon.
- Show understanding of Moon phases.
- Learn about our solar system.
- Know the inner planets.
- Learn about our solar system.
- Know the outer planets.
- Know the objects in the solar system that are not planets.

Unit 7

- Learn about weather.
- Learn about meteorology.

- Learn about different types of precipitation.
- Learn how weather affects us.
- Understand the water cycle.
- Learn about severe weather events.
- Learn about weather preparation.

Unit 8

- Understand characteristics of living things.
- Tell living things from nonliving things.
- Learn about plants.
- Know the purpose of plant roots.
- Know the purpose of plant stems.
- Learn the purpose of plant leaves.
- Group leaves by common features.
- Tell how flowers and fruits help plants survive.
- Name different things that help pollen and seeds to spread.
- Learn the needs of healthy plants.

Unit 9

- Learn that animals are living things.
- Learn that animals share certain traits.
- Tell how animals have parts and behaviors that help meet their needs.
- Learn about insects and their traits.
- Learn about fish and their traits.
- Learn about the life cycle of fish.
- Learn about amphibians and their traits.
- Learn about protective coloration.
- Learn about reptiles and their traits.
- Learn about dormancy.
- Learn about birds and their traits.
- Learn about migration.
- Learn about mammals and their traits.
- Learn about hibernation.
- Learn about food chains.
- Understand the roles of plants and animals in a food chain.

Unit 10

- Learn about environments and how plants and animals depend upon them for life.
- Learn how plants and animals depend upon each other for life.
- Learn about ecosystems.
- Learn how plants and animals depend upon each other.

- Describe the rain forest.
- Learn about deforestation and its effects on the planet.
- Learn the value of the rain forests.
- Learn about the environment.
- Learn about land, air, and water pollution.
- Learn about conservation.
- Practice being a conservationist.
- Understand the roles of scientists.

3rd Grade Science – 2nd Edition

Unit 1

- Describe how scientists observe, ask questions, and investigate.
- Observe something in the natural world and ask a question about it.
- Learn about science tools used in investigations.
- Understand how to be safe when doing investigations.
- Use science tools to make measurements in metric units.
- Describe how engineers find solutions to problems.
- Explore the different parts of an investigation.
- Describe data as being from observations or measurements.
- Learn about descriptive and experimental investigations.
- Organize data into tables.
- Define model.
- Describe how models are helpful and limited.

Unit 2

- Explain what different scientists learned about the solar system in the past.
- Understand that the solar system includes the sun and the objects that orbit the sun.
- Know the planets in order from the sun.
- Understand that the sun is a star that gives off light and heat.
- Compare the sun with other objects in the solar system.
- Understand the differences between the outer planets and inner planets.
- Understand the differences between a planet and a dwarf planet.
- Describe other objects in the solar system.
- Learn facts about the earth.
- List reasons why life can be found on the earth.
- Describe facts about the moon.
- Describe the positions and motions of the sun, earth, and moon.

Unit 3

- Explain weather and the atmosphere.
- Learn about the different things that make weather.
- Learn about how different types of clouds mean different types of weather.
- Describe the different types of precipitation.
- Understand how the water cycle works.
- Draw a picture of the water cycle.
- Understand what wind is and how it forms.
- Learn about the tools a meteorologist uses to study weather.
- Understand that weather conditions are different all over the world at any time.
- Learn to read and understand different types of graphs.

Unit 4

- Understand how a volcano works.
- Describe how volcanoes can shape the surface of land.
- Identify different landforms.
- Describe different ways the earth's surface can change.
- Learn what causes earthquakes.
- Describe how earthquakes change the surface of the earth.
- Learn how fossils were formed.
- Describe how fossils can tell information about what an area used to be like.
- Define fossil fuels.
- Learn where fossil fuels come from and how they are used.
- Understand the different parts of soil.
- Explain why soil is important.
- Understand how weathering breaks down rocks to form soil.
- Describe the different ways that water, wind, and plants can weather rocks.
- Describe the different ways that plants and animals help make soil.

Unit 5

- List the different things an environment must have in order for life to live there.
- Know the different parts of an ecosystem.
- Understand the difference between organism, population, and community.
- Describe different types of ecosystems.
- Describe how energy moves from one organism to another in a food chain.
- Understand how plants and animals are connected to each other in a food chain.
- Describe different things that help plants and animals survive.
- Describe why ecosystems are important.
- Explain how people use natural resources.
- Describe how ecosystems can quickly change because of floods and drought.
- Describe different ways humans change ecosystems.
- Understand the difference between endangered and extinct.
- Learn how to reduce, reuse, and recycle to help ecosystems.

Unit 6

- Describe and label the different parts of a plant.
- Understand how each plant part helps the plant.
- Describe and illustrate the different stages of plant life cycles.
- Explain how conifer and flowering plant life cycles are different.
- Describe different traits that allow plants to survive different ecosystems.
- Understand how dormancy helps plants survive changes in temperature and precipitation.
- Understand what makes an animal an animal.
- Understand the difference between vertebrate and invertebrate animals.

- Learn about different invertebrate groups.
- Learn about different vertebrate groups.
- Understand what happens in the different stages in an animal life cycle.
- Explore simple animal life cycles and a frog's life cycle.
- Understand how different limbs help animals survive in their environments.
- Understand how behaviors help animals survive.

Unit 7

- Define matter.
- Describe matter by its physical properties.
- Describe the physical properties of the three states of matter.
- Describe the physical properties of floating and sinking.
- Understand different things that help objects to float.
- Describe the properties of magnets.
- Describe physical changes to matter.
- Give examples of physical changes.
- Understand how different types of matter can be joined together to make a mixture.
- Understand that materials can be combined to improve their physical properties.

Unit 8

- Define force.
- Describe the forces of gravity and friction.
- Understand why some investigations are repeated.
- Describe how balanced forces cause objects not to move.
- Describe how unbalanced forces cause objects to move.
- Describe how unbalanced forces cause a change in position.
- Define speed.
- Understand how force affects distance and speed.
- Describe how work is done.
- Understand that work is made easier with simple machines.
- Understand how inclined planes, wedges, and screws make work easier.
- Understand how levers, wheels and axles, and pulleys make work easier.

Unit 9

- Define energy.
- Know the difference between potential and kinetic energy.
- Understand how speed is related to mechanical energy.
- Describe the different forms of energy.
- Understand how different energy forms are used in everyday life.
- Understand that one form of energy can transform into another form of energy.
- Understand the flow of heat energy.

- Describe how different forms of energy can transform to heat energy.
- Understand that fuel is a type of chemical energy.
- Identify different types of fuel.
- Describe different ways electricity is used in everyday life.
- Describe how electric charges work.
- Understand why energy should be conserved.
- List several ways to conserve energy.
- Describe different renewable energy resources that can be used instead of fossil fuels.

Unit 10

- List different ways sound is described.
- Understand the difference between pitch and volume.
- Identify everyday uses of sound.
- Understand that sound energy travels in waves.
- Describe the differences in waves between high-pitched and low-pitched sounds.
- Describe the differences in waves between loud and soft volumes.
- Label the different parts of a sound wave.
- Understand why some sounds become echoes.
- Describe materials that absorb sound and materials that let sound travel through them.
- Understand how people use their vocal cords to talk and sing.
- Describe how the ear helps people hear sounds.
- Understand that light energy travels in waves.
- Understand that light travels in a straight line.
- Describe what can happen to light when it hits an object.
- Understand the difference between reflect and refract.
- Describe how light is reflected.
- Describe how light is refracted.
- Identify and describe everyday uses of light.

4th Grade Science

Unit 1

- Describe the types of questions a scientist might ask.
- Learn how investigations and experiments work.
- Understand how to be safe when doing experiments.
- Describe different types of investigations.
- Understand the difference between a prediction and a hypothesis.
- Define and give examples of variables in investigations.
- Describe why it is important for scientists to examine evidence.
- Understand what kind of evidence is empirical.
- Think critically about claims advertisements might make.
- Understand that some data is represented by numbers and other data is descriptive, only using words.
- Understand the differences between the customary and metric system.
- Describe how prefixes change the size of a measurement.
- Learn abbreviations for common measurements.
- Learn about the tools used to take common measurements.
- Take common measurements.
- Understand how to put data into tables.
- Read and make bar graphs.
- Understand how to read a pie graph.
- Understand how scientists order and classify things based on their properties.
- Describe how organisms are ordered and classified.
- Describe how plants are ordered and classified.
- Diagram a plant life cycle.
- Compare the life cycles of lima beans and radishes.
- Understand the difference between annual, biennial, and perennial plants.
- Understand how heredity helps determine what a seed will look like when it becomes a mature plant.
- Describe how plants can reproduce with flowers, cones, or spores.
- Diagram the parts of a flower.
- Describe different ways plants can be pollinated.
- Describe how fertilization happens.
- Describe different ways seeds can disperse to new locations.

Unit 2

- Describe what makes an animal an animal.
- Compare carnivores, herbivores, omnivores, and decomposers.
- Understand the major classifications of animals.
- Compare innate and learned behavior in animals.
- Compare animals that hibernate and those that go into torpor.
- Describe how migration can be a learned and an innate behavior.
- Describe different tools scientists use to study animals.
- Understand why people study animals.

- List several careers in animal science.
- Describe different classifications of invertebrates.
- Describe insect traits.
- Describe arachnid traits.
- Compare insects and arachnids.
- Compare the life cycle of insects that go through complete and incomplete metamorphosis.
- Describe the different traits of fish and amphibians.
- Describe and diagram the life cycles of fish and amphibians.
- Describe the different traits of reptiles and birds.
- Describe and diagram the life cycles of reptiles and birds.
- Describe the different traits of mammals.
- Describe and diagram the life cycles of mammals.

Unit 3

- Define ecosystem.
- Understand how organisms, populations, and communities are a part of ecosystems.
- Describe different habitats.
- Describe different biomes.
- Understand how different plant adaptations help plants survive.
- Understand how different adaptations help animals survive.
- Define producer and consumer.
- Draw a diagram of photosynthesis.
- Understand that plants need water, sunlight, and carbon dioxide to do photosynthesis.
- Understand how energy flows in a food chain and a food web.
- Understand the difference between a food chain and a food web.
- Describe predator and prey.
- Describe different adaptations that predators and prey have that help them survive.
- Describe different ways ecosystems can change.
- Describe how ecosystem change can cause some organisms to be endangered or extinct.
- Understand how fossils help scientists learn how change affects some organisms.
- Describe different ways to conserve natural ecosystems.

Unit 4

- Describe how clouds are made.
- Understand how different types of clouds mean different types of weather.
- Describe how different types of precipitation are made.
- Understand how precipitation is measured.
- Draw and label the different parts of the water cycle.
- Describe different ways water can move in the water cycle.

- Understand why water is an important renewable natural resource.
- Describe weather in different ways.
- Understand how the tilt of the earth causes seasons with different weather patterns.
- Explain how meteorologists describe weather.
- Describe how meteorologists forecast and communicate weather.
- Describe different types of severe weather.
- Understand how the National Weather Service works.

Unit 5

- Describe different natural resources found on and in earth's crust.
- Compare renewable and nonrenewable natural resources.
- Describe different ways to conserve natural resources.
- Describe the three different types of rocks and how they are formed.
- Describe how rocks are classified.
- Understand what makes a mineral a mineral.
- Describe the different parts of soil.
- Diagram the different soil horizons.
- Compare different soil profiles.
- Understand how soil is classified by color and texture.
- Describe ways to practice soil conservation.
- Describe and identify different earth landforms.
- Describe how weathering works.
- Understand the difference between physical and chemical weathering.
- Describe how different types of erosion create different types of landforms.
- Describe how different types of deposition create different types of landforms.
- List the different oceans.
- Describe and label different ocean landforms.
- Describe different tools scientists use to explore the ocean.
- Describe why the ocean is important.
- Describe ways to practice conservation to keep oceans healthy.

Unit 6

- Understand how Earth fits in outer space.
- Describe the Earth, Sun, and Moon systems.
- Compare the Earth, Sun, and Moon.
- Describe why the Sun appears to move across the sky.
- Understand why there is day and night on Earth.
- Predict what a shadow might look like at certain times of the day.
- List different facts about the Moon.
- Compare a solar eclipse with a lunar eclipse.
- Diagram the phases of the Moon.
- Understand why only some of the Moon is visible in the night sky.
- Describe how the Moon affects the ocean.

- Define constellation.
- Describe how constellations can be helpful.
- Describe other space objects that can be seen in the sky.
- Describe the Milky Way Galaxy.
- Understand the different types of galaxies.

Unit 7

- Define matter.
- Describe matter by its physical properties.
- Describe the physical properties of floating and sinking.
- Understand different things that help objects to float.
- Describe the properties of magnets.
- Describe and compare the different states of matter.
- Describe how matter changes states when heat energy is added or removed.
- Predict how matter will change states when heat energy is added or removed.
- Understand how different types of matter can be joined together to make a mixture.
- Understand that a solution is a special type of mixture.
- Describe physical changes to matter.
- Describe chemical changes to matter.
- Compare and contrast physical and chemical changes.

Unit 8

- Define force.
- Describe how balanced forces cause objects not to move.
- Describe how unbalanced forces cause objects to move.
- Describe different types of forces.
- Compare speed, velocity, and acceleration.
- Understand different factors that affect speed.
- Describe what happens when work is done.
- Understand how simple machines make work easier.
- Understand how different simple machines make work easier.
- Describe what energy is.
- Differentiate and describe potential, kinetic, and mechanical energy.

Unit 9

- Describe different ways heat can move.
- Compare conduction, convection, and radiation.
- Understand the difference between heat conductors and insulators.
- Describe how electricity works.
- Understand how static electricity works without wires.

- Understand that electricity needs to flow in a closed path in order to power devices.
- Compare open and closed circuits.
- Compare series and parallel circuits.
- Describe how batteries are a part of circuits.
- Describe different ways to measure electricity.
- Describe an electromagnet.
- Understand how electromagnets help make electricity.
- Compare motors and generators.
- Compare electric insulators and conductors.
- Describe different safety rules when working with and using electricity.

Unit 10

- List different ways sound is described.
- Understand the difference between pitch and volume.
- Understand that sound energy travels in waves.
- Describe the differences in waves between high-pitched and low-pitched sounds.
- Describe the differences in waves between loud and soft volumes.
- Label the different parts of a sound wave.
- Describe how sound travels through gases, liquids, and solids.
- Understand how temperature affects speed.
- List different ways to change the pitch of a string.
- Understand why some sounds echo.
- Describe the difference between materials that insulate sound and materials that conduct sound.
- Understand how people use their vocal cords to talk and sing.
- Describe how the ear helps people hear sounds.
- Understand that light is a type of energy that travels in waves.
- Understand that light travels in a straight line.
- Describe what can happen to light when it hits an object.
- Understand how light travels in waves.
- Describe how light is reflected.
- Describe how light is refracted.
- List the colors in the light spectrum.
- Describe how lenses can make objects look bigger or smaller.
- Understand how the shape of different lenses refracts light.
- Describe how the eye lens helps us see.

5th Grade Science – 2nd Edition

Unit 1

- Describe what science is and what a scientist does.
- List different ways scientists make observations and inferences about the natural world.
- Observe something in the natural world and make an inference about the observation.
- Describe different parts of an investigation.
- Describe how a scientist completes an experiment.
- Define and give examples of variables in experiments.
- Understand that some data is represented by numbers and other data is descriptive, only using words.
- Understand the differences between the customary and metric system.
- Describe how prefixes change the size of a measurement.
- Learn abbreviations for common measurements.
- Learn about the tools used to take common measurements.
- Describe different ways scientists use math to analyze data.
- Calculate the mean, median, mode, and range for a data set.
- Understand how to put data into tables.
- Read and make different types of graphs.
- Understand how to read a pie graph.
- Describe why it is important for scientists to examine evidence.
- Compare and contrast evidence that is empirical, inferred, or an opinion.
- Understand the process of claim-evidence-reasoning and how it is used to evaluate scientific claims.
- Describe and compare different types of models that scientists can use.
- Understand that models have limitations for describing the natural world.

Unit 2

- Describe matter based on physical properties.
- Describe the different parts of the atom.
- Describe the history and evolution of the concept of atoms.
- Understand what makes each element unique.
- Describe what happens when molecules and compounds form.
- Compare and contrast molecules and compounds.
- Describe and compare the different states of matter.
- Describe how matter changes states when heat energy is added or removed.
- Predict how matter will change states when heat energy is added or removed.
- Describe the properties of mixtures.
- Describe different ways to separate mixtures.
- Describe how solutions and alloys are special types of mixtures.
- Understand the difference between solvents and solutes.
- Understand how the concentration of a solute changes the properties of a solution or alloy.

- Describe physical changes to matter.
- Describe chemical changes to matter.
- Compare and contrast physical and chemical changes.
- Describe different careers in chemistry and the tools used.
- Learn about famous chemists and their important discoveries and contributions to science and society.

Unit 3

- Describe what energy is.
- Differentiate and describe potential and kinetic energy.
- Describe different forms of energy.
- Compare and contrast heat and thermal energy.
- Describe the different uses of heat energy.
- Describe the different ways heat moves.
- Understand that light is a type of energy that travels in waves.
- Describe the electromagnetic spectrum.
- List the colors in the light spectrum.
- Describe what can happen to light when it hits an object.
- Describe how light is absorbed, reflected, refracted, and scattered.
- Describe how electrical energy works.
- Understand what causes static electricity.
- Describe how electricity flows in closed circuits.
- Compare and contrast series and parallel circuits.
- Identify materials that are good electrical conductors and insulators.
- Learn the concept of superconductors and explain how they are used.

Unit 4

- Define force and motion.
- Contrast balanced and unbalanced forces.
- Understand how mass and height affect the effect of gravity.
- Describe different factors that affect friction.
- Compare times when friction is helpful and times when it is not.
- Describe electric force.
- Describe magnetic force.
- Identify and describe patterns of motion in nature, machines, and everyday objects.
- Explain the cause-and-effect relationship in force and motion.
- Describe Isaac Newton’s contributions to our understanding about force.
- Summarize Newton’s three laws.
- Describe what happens when work is done.
- Understand how different simple machines make work easier.
- Understand how compound machines make work easier.
- Describe the steps of the engineering design process and how engineers use it to design solutions to problems.

Unit 5

- Describe different careers in geology and the tools used.
- Understand why studying about the earth and rocks is important.
- Diagram the structure of the earth.
- Describe the different layers of the earth.
- Understand how the layers work together to shape and protect our planet.
- Describe the process of sedimentation.
- Identify the characteristics of sedimentary rocks.
- Describe how different fossils are formed.
- Understand how fossils can tell scientists what the earth was like in the past.
- Describe how different types of fossil fuels are formed.
- Describe the advantages and disadvantages of coal.
- Describe how wind, water, and ice create landforms.
- Describe different landforms.
- Explain the concept of natural resources.
- Differentiate between renewable and nonrenewable resources.
- Recognize the importance of conserving natural resources.

Unit 6

- Understand why water is important.
- Compare saltwater sources to freshwater sources.
- Diagram the water cycle.
- Describe different paths water can take in the water cycle.
- Describe the importance of the ocean in the water cycle and in the earth's climate.
- Describe different traits of the layers of the atmosphere.
- Compare and contrast good and bad ozone layers.
- Describe the different aspects that make up weather.
- Understand how air pressure and humidity influence weather.
- Identify and describe different types of extreme weather events.
- Describe the different factors that make up climate.
- Compare and contrast climate and weather.
- Explain the concept of water scarcity.
- Identify the causes and effects of water pollution.
- Recognize the connection between water pollution and climate change.

Unit 7

- Describe and define different objects that make up the universe.
- Describe and diagram objects in the solar system.
- Describe how different stars are classified.
- Compare and contrast the life cycle of an average star to the life cycle of a massive star.
- Describe the different layers of the sun.

- Understand how scientists can study elements in objects that are not on Earth.
- Understand why magnetic fields are important.
- Describe the four inner planets of the solar system.
- Describe the four outer planets, dwarf planets, and moons of the solar system.
- Describe the effects of gravity on the height of a person.
- Compare and contrast the sun, moon, and Earth.
- Describe how the sun and Earth interact.
- Describe the physical characteristics of the moon.
- Describe solar and lunar eclipses.
- Understand how the moon affects tides.
- Name key events in space exploration history.
- Understand the motivations and challenges of space exploration.
- Describe projects scientists are working on for future space exploration.

Unit 8

- Name the different groups in which organisms can be classified.
- Describe the major classification groups of plants.
- Describe why plants are important to people.
- Describe different plant structures and functions.
- List the steps in a plant life cycle.
- Understand how heredity helps determine what a seed will look like when it becomes a mature plant.
- Describe what makes an animal an animal.
- Identify carnivores, herbivores, omnivores, and decomposers.
- Understand the major classifications of animals.
- Explore innate and learned behavior in animals.
- Describe different classifications of invertebrates.
- Compare the life cycles of insects that go through complete and incomplete metamorphosis.
- Describe the different traits of fish and amphibians.
- Describe the life cycles of fish and amphibians.

Unit 9

- Define ecosystem and biosphere.
- Understand how organisms, populations, and communities are a part of ecosystems.
- Describe different habitats.
- Describe different biomes.
- Understand how different adaptations help plants survive.
- Understand how different adaptations help animals survive.
- Describe and identify different relationships in ecosystems.
- Describe relationships between organisms that are helpful and harmful.
- Understand how energy flows in a food chain, food web, and energy pyramid.
- Understand the difference between a food chain, food web, and energy pyramid.

- Describe the carbon cycle and its importance to ecosystems.
- Describe the nitrogen cycle and its importance to ecosystems.
- Describe different factors that determine how big a population can grow in an ecosystem.
- Understand the importance of keystone species in ecosystems.
- Describe different ways ecosystems can change.
- Describe different ways to conserve natural ecosystems.

Unit 10

- Understand how life is made of cells.
- Describe the five functions of life.
- Describe how microscopes help scientists study cells.
- Label a compound microscope.
- State the three parts of the cell theory.
- Describe major events in the development of the cell theory.
- Describe which life kingdoms are unicellular.
- Understand that microorganisms can be both harmful and helpful.
- Describe the different parts and their functions in an animal cell.
- Describe the different parts of a plant cell.
- Compare and contrast plant and animal cells.
- Describe and diagram photosynthesis.
- Describe and diagram respiration.
- Describe how cells organize into different structures.
- Describe in detail how the respiratory, circulatory, and digestive systems work in people.

6th Grade Science – 2nd Edition

Unit 1

- Identify different fields of science.
- Understand laboratory safety and procedures.
- Be able to conduct field and laboratory investigations using safe, environmentally appropriate, and ethical practices.
- Be able to implement investigative procedures using the scientific method, including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.
- Be able to collect data by observing and measuring; analyze and interpret information.
- Know how to construct graphs, tables, maps, and charts to organize, examine, and evaluate data.
- Be able to collect, analyze, and record information using various tools.
- Be able to describe and identify key people and inventions throughout the history of science.

Unit 2

- Understand, describe, and label the different parts of an atom.
- Define elements and understand the difference between reactive and inert elements.
- Describe the seven most abundant elements.
- Understand the purpose of the periodic table of elements and how it is organized.
- Identify the symbols on the periodic table and what they represent.
- Find the atomic weight of elements based on the numbers of protons and neutrons the elements have.
- Understand the difference between mass, volume, and density.
- Calculate the density of an object, and identify an unknown object based on its density.
- Know and describe the three major groups of elements on the periodic table, and identify various elements in each of these three groups.
- Understand the difference between compounds, mixtures, and solutions.
- Describe the characteristics of acids and bases, and know the various uses of both in everyday products.
- Know what the pH scale is and how it is used.
- Understand the difference between a physical change and a chemical change, and be able to identify when a change is physical or chemical.
- Identify key people who contributed to the advancement of chemistry.
- Describe what the Nobel Peace Prize is and how it was established.

Unit 3

- Know and distinguish the properties of potential and kinetic energy.
- Identify the process of gaining and losing energy.
- Identify the relationship between force and motion.

- Identify the purpose and function of the six simple machines.
- Identify key figures in the scientific quest to understand force, motion, and energy.
- Understand the law of conservation of energy.
- Understand thermal energy and identify the differences between conduction, convection, and radiation.
- Understand and identify the different forms of energy and how they are used.
- Understand how energy is converted.
- Compare and contrast heat and thermal energy.
- Describe the different uses of heat energy.
- Describe the different ways heat moves.
- Identify how force and motion relate to speed, velocity, direction, and acceleration.
- Understand, identify, and explain the laws of motion.
- Understand the difference between the metric system and the customary system.

Unit 4

- Define and describe the different types of fossil fuels.
- Compare and contrast the different types of coal.
- Understand how each type of fossil fuel is formed and retrieved from the Earth.
- Describe how nuclear energy works.
- List the advantages and disadvantages of nuclear energy.
- Describe the disadvantages of fossil fuels.
- Understand what makes an energy resource renewable.
- Understand how solar energy works.
- Describe the advantages and disadvantages of solar energy.
- Describe different ways water can produce electricity.
- List the advantages and disadvantages of hydropower.
- Describe how wind, geothermal, and biomass forms of energy work.
- List the advantages and disadvantages of wind, geothermal, and biomass energy.
- List reasons why energy conservation is needed.
- Understand how fossil fuels might cause global warming.
- Compare different viewpoints on taking care of the environment.
- Describe several ways to manage resources.
- Develop a plan to manage resources.

Unit 5

- Identify the layers of the Earth’s interior.
- Describe the movements of the continents.
- Explain the plate tectonics of the lithosphere.
- Describe convergence and divergence.
- Explain the movements of the Earth’s plates.
- Explain the forces behind the movements of the Earth’s plates.
- Describe the results of the movements of the Earth’s plates.
- Describe the causes and results of earthquakes.
- Explain seismic waves and the instruments used to detect them.

- Describe the types of volcanoes and their origins.
- Explain the various ways in which a mountain is formed.
- Describe the different types of mountains.
- Explain the forces that shape a mountain over time.
- Describe the topography of the ocean floor.
- Describe the individual formations on the ocean floor.
- Discuss several career choices in tectonics-related fields.

Unit 6

- Understand that rocks are classified based on how they are formed.
- Understand the difference between igneous, sedimentary, and metamorphic rocks.
- Know how igneous rocks are formed.
- Identify different igneous rocks and what they are used for.
- Understand the difference between extrusive and intrusive rock.
- Know how sedimentary rocks are formed.
- Identify different sedimentary rocks and what they are used for.
- Understand the difference between mechanical and chemical formation.
- Know how metamorphic rocks are formed.
- Understand the difference between contact metamorphism and regional metamorphism.
- Understand and diagram the processes involved in the rock cycle.
- Identify man-made rocks and what they are used for.
- Describe the glassmaking process, and identify different types of glass based on how they are formed.
- Describe how a fossil is formed in rock.
- Identify different types of fossils.
- Make predictions about past environments based on fossils found.
- Know the qualities a substance must have in order to be classified as a mineral.
- Understand the difference between native minerals and compounds.
- Identify the different ways minerals are used.
- Understand the color, streak, hardness, luster, crystal shape, and specific gravity tests, and understand how to identify minerals using these tests.
- Differentiate between renewable and nonrenewable minerals.
- Describe different mining methods and their impact on the environment.

Unit 7

- Define different space objects in the universe.
- Describe different galaxy shapes.
- Define and understand the measurement of light years.
- Diagram different star life cycles.
- Diagram the layers of the Sun and describe what happens in each layer.
- Compare and contrast inner and outer planets.
- Describe the known dwarf planets.
- Understand what makes a dwarf planet different from a regular planet.
- Describe characteristics of Galilean moons.
- Describe and differentiate between different space objects.

- Understand how gravity affects objects and motion in the universe.

Unit 8

- Identify the beliefs and history of ancient astronomy.
- Understand the influence Copernicus had on astronomy.
- Describe the influence of the telescope on astronomy.
- Understand the implications and complications of the history of space travel.
- Describe and retell the history of space shuttle missions.
- Know key figures throughout the history of space exploration.
- Note the key components of space shuttles.
- Describe and retell the history of space probe missions.
- Understand the definition of a space station and know the purpose of the International Space Station.
- Understand the future of space exploration.

Unit 9

- Describe traits that organisms share.
- Define cell.
- Compare and contrast prokaryotic and eukaryotic cells.
- Describe how mitosis and meiosis work for growth and reproduction.
- Differentiate between mitosis and meiosis.
- Describe the cell theory and the people who contributed to its development.
- Describe the history of classifying organisms.
- Understand that domain is the highest level of classification.
- Understand how organisms are classified.
- Compare and contrast the different kingdoms.
- Describe the advantages of sexual and asexual reproduction.
- Describe different types of asexual reproduction.
- Describe what makes an animal an animal.
- Differentiate between different types of animals.
- Differentiate between vascular and nonvascular plants.
- Differentiate between seedless and seed plants.
- Describe what fungus is and list some of the beneficial and harmful fungi.
- Describe different types of bacteria, archaebacteria, and protists.
- Distinguish between helpful and harmful bacteria, archaebacteria, and protists.

Unit 10

- Define ecosystem.
- Diagram and understand the different levels of organization in an ecosystem.
- Differentiate between abiotic and biotic factors.
- Describe the different factors ecosystems must have for organisms to survive.
- Describe and differentiate between different types of interactions between organisms in ecosystems.
- Define the different types of energy relationships in ecosystems.

- Compare different types of energy diagrams for ecosystems.
- Describe the different cycles that happen in ecosystems.
- Understand why certain nutrients are important for organisms.
- Describe natural and man-made changes in ecosystems.
- Understand how climate affects biomes.
- Differentiate between different types of biomes.
- Describe what an ecologist does for work.
- Name famous historical ecologists and their contributions.
- Define conservation.
- Describe different ways to conserve land, air, and water.

7th Grade Science – 2nd Edition

Unit 1

- Identify various fields of science and the questions they can help answer.
- Behave appropriately in a lab setting and understand the opportunities a lab provides for learning.
- Identify important science lab rules.
- Recognize signs used to indicate lab safety hazards.
- Identify the safety measures that need to be taken when working with various lab tools.
- Describe actions that need to be taken when an accident occurs.
- Describe the proper way to dispose of waste.
- Understand, describe, and identify the three different types of investigation.
- Identify common scientific tools used in experiments.
- Describe how safety equipment should be used in specific emergencies.
- Identify the different types of visual aids used to organize information and identify the best way to use each of those tools.
- Know the steps of the scientific method and be able to conduct experiments using the scientific method.
- Compare and contrast scientific hypotheses, theories, and laws.
- Describe the systems and means that scientists use to measure experimental results.
- Be able to draw conclusions based on data.
- Understand how scientists share their discoveries with the world and why it is important.

Unit 2

- Identify the properties of matter.
- Compare and contrast the states of matter.
- Identify the role of temperature in changing states of matter.
- Describe ways that matter changes states including boiling, evaporation, sublimation, and deposition.
- Distinguish between physical and chemical changes in matter.
- Identify the parts of an atom.
- Describe characteristics of elements.
- Identify selected examples of elements.
- Recall the origin of the periodic table.
- Describe the meaning of information in periodic table squares.
- Identify the properties of elements within each element group.
- Compare and contrast chemical molecules and compounds.
- Use scientific notation to identify chemical symbols and formulas.
- Compare and contrast compounds through chemical formulas.
- Distinguish between mixtures and compounds.
- Describe aqueous solutions as affected by solute and solvent, concentration, and dilution.

- Describe the process of saturation, solubility, and dissolution on aqueous solutions.
- Identify and describe factors affecting solubility.

Unit 3

- Compare and contrast balanced and unbalanced forces on motion.
- Explain friction and its effect on motion.
- Understand the concept of gravity by comparing the weight and mass of an object.
- Outline the steps in the engineering design process including evaluation, making improvements, and communicating findings.
- Analyze scenarios by applying principles from the engineering design process.
- Identify Newton's laws of motion.
- Describe the role of forces in Newton's first law of motion.
- Describe the relationship between speed and distance.
- Compare and contrast speed and velocity.
- Investigate ways speed and distance can be illustrated graphically.
- Compare and contrast characteristics of kinetic and potential energy.
- Identify forms of energy including electrical, chemical, thermal, and nuclear.
- Describe the relationship between energy and waves.
- Describe the characteristics of thermal energy including its effect on the state of matter, and on conduction, convection, and radiation.
- Describe how temperature moves from warmer to cooler to establish equilibrium in a system.
- Identify examples of energy transformations.

Unit 4

- Identify the layers of the earth's interior.
- Compare and contrast characteristics of the earth's crust, mantle, and core.
- Describe the movement of the continents according to the theory of plate tectonics.
- Describe how convergence and divergence affect the movement of plates.
- Identify the stress forces that occur when the earth's plates come in contact with one another.
- Describe the link between crustal features and plate boundaries.
- Explain the relationship between plate tectonics and earthquakes.
- Identify and describe the instruments and methods scientists use to measure and study earthquakes.
- Describe the classifications and types of volcanoes and hot spots.
- Describe the effects of volcanoes on humans, climate, and geography.
- Describe the landforms of the ocean floor.
- Describe the individual formations on the ocean floor.
- Explain the various ways in which a mountain is formed.
- Describe the different types of mountains.

- Explain the forces that shape a volcanic mountain over time.
- Differentiate between physical and chemical weathering.
- Describe how weathering, erosion, and deposition change the surface of the earth.
- Survey careers in earth sciences.

Unit 5

- Define different space objects in the universe.
- Describe different galaxy shapes.
- Identify characteristics of stars.
- Outline the life cycle of stars.
- Describe the layers of the sun.
- Identify disturbances that occur on the face of the sun and describe how they can affect Earth.
- Identify characteristics of the inner planets.
- Identify unique characteristics of Earth that allow it to sustain life.
- Identify facts and cause and effect relationships regarding the tilt of Earth's axis.
- Identify characteristics of the outer planets.
- Describe characteristics of several dwarf planets.
- Understand what makes dwarf planets different from regular planets.
- Describe characteristics of the Galilean moons and Saturn's moon Titan.
- Compare and contrast the Galilean moons with other moons in the solar system.
- Describe comets, asteroids, and meteoroids.
- Describe characteristics of the heliosphere and Oort cloud.
- Describe how the sun's gravity affects objects and motion in the universe.
- Identify the steps required for a satellite to be placed in, and remain, in orbit around a planet.

Unit 6

- Define cells and describe the three main parts of a standard cell.
- Identify the structure and function of the organelles within a cell and describe differences between plant and animal cells.
- Describe the different types of cells and understand the difference between unicellular and multicellular organisms.
- Outline the history and basic parts of the microscope.
- Identify the benefits and limitations of microscopes.
- Describe the three main principles of cell theory.
- Identify the people who contributed to creating cell theory.
- Compare the functions of a cell to the functions of organisms and understand that cells and organisms have similar functions.
- Compare and contrast sexual and asexual reproduction.
- Describe different types of asexual reproduction.
- Identify the types of changes that result from natural selection and selective breeding.

- Identify natural and artificial selection.
- Describe examples of natural and artificial selection changes.

Unit 7

- Describe the complex organization of the human body.
- Describe cells, tissues, organs, and organ systems.
- Identify ways human body organ systems work together to make the body function correctly.
- Describe the characteristics and functions of the integumentary system.
- Describe the characteristics and functions of the skeletal and muscular systems.
- Identify ways that the skeletal and muscular systems function together and separately.
- Describe the characteristics and functions of the circulatory system.
- Outline how blood flows from the heart to the lungs and other parts of the body.
- Identify the function of the lymphatic system and explain how it relates to the circulatory system.
- Describe the characteristics and functions of the respiratory system.
- Describe the process of respiration.
- Describe the characteristics and functions of the digestive and urinary systems.
- Explain the purpose and process of digestion, including the organs involved and their functions.
- Explain the purpose and process of excretion.
- Describe the characteristics and functions of the reproductive system.
- Explain how human reproduction occurs.
- Describe the characteristics and functions of the nervous and endocrine systems.
- Describe the central nervous system (CNS) and the peripheral nervous system (PNS).
- Explain how messages are carried throughout the nervous system.
- Describe the characteristics and functions of the immune system.

Unit 8

- Describe important events and people in the history of classifying organisms.
- Describe the characteristics of domains and kingdoms.
- Identify levels of classification used to categorize organisms.
- Describe different types of bacteria, archaea, and protists.
- Distinguish between helpful and harmful bacteria and protists.
- Differentiate between vascular and nonvascular plants.
- Differentiate between seedless and seed plants.
- Describe the characteristics of a fungus and identify beneficial and harmful fungi.
- Understand the functions and roles of plant structures.
- Know the levels of organization in a plant.
- Describe the process scientists use to identify organisms.
- Describe characteristics that make an animal an animal.
- Differentiate between invertebrates and vertebrates.

- Identify the distinguishing characteristics of the five major groups of invertebrate animals.
- Identify the distinguishing characteristics of the five major groups of vertebrate animals.

Unit 9

- Explain the difference between biotic and abiotic factors in an environment.
- Describe the different levels of an ecosystem.
- Explain the effect of controls and limitations on an ecosystem.
- Understand how animal dependencies benefit an ecosystem.
- Recognize that organisms have adaptations that make them suited to specific habitats.
- Differentiate between a habitat and a microhabitat.
- Define and examine the different types of energy relationships in ecosystems.
- Explore different types of energy diagrams for ecosystems.
- Explain the benefits of biodiversity to an ecosystem.
- Describe factors that influence biodiversity.
- Discuss how biodiversity affects an ecosystem's sustainability.
- Identify the steps of the carbon and nitrogen cycles.
- Describe the role of the carbon and nitrogen cycles in ecosystems.
- Describe the different cycles that happen in ecosystems.

Unit 10

- Describe the characteristics of watersheds.
- Identify ways that humans affect the health of watersheds.
- Describe the characteristics of aquifers.
- Identify ways that humans impact aquifers.
- Define water scarcity and identify its consequences for ecosystems and human populations.
- Identify types of pollution and their connection to human activity.
- Identify distinguishing characteristics of freshwater aquatic systems.
- Describe ways that human activity influence freshwater aquatic systems.
- Identify the challenges to providing clean and safe water.
- Describe ways that humans treat water to make it clean and safe.
- Describe ways that governments work to protect and maintain water resources.
- Identify characteristics of ocean ecosystems.
- Describe ways that ocean resources benefit humans.
- Describe how microplastics and toxins work through aquatic food chains.
- Describe the harmful effects of pollution created by humans on the ocean.
- Identify the characteristics and benefits of coral reef ecosystems.
- Describe how human activity affects coral reefs.

8th Grade Science – 3rd Edition

Unit 1

- Describe the characteristics of watersheds.
- Identify ways that humans affect the health of watersheds.
- Describe the characteristics of aquifers.
- Identify ways that humans impact aquifers.
- Define water scarcity and identify its consequences for ecosystems and human populations.
- Identify types of pollution and their connection to human activity.
- Identify distinguishing characteristics of freshwater aquatic systems.
- Describe ways that human activity influence freshwater aquatic systems.
- Identify the challenges to providing clean and safe water.
- Describe ways that humans treat water to make it clean and safe.
- Describe ways that governments work to protect and maintain water resources.
- Identify characteristics of ocean ecosystems.
- Describe ways that ocean resources benefit humans.
- Describe how microplastics and toxins work through aquatic food chains.
- Describe the harmful effects of pollution created by humans on the ocean.
- Identify the characteristics and benefits of coral reef ecosystems.
- Describe how human activity affects coral reefs.

Unit 2

- Understand the difference between mass, volume, and density.
- Calculate the density of an object.
- Describe the properties of matter.
- Differentiate between the states of matter.
- Describe how energy impacts changes in matter.
- Explain changes in states of matter.
- Understand the difference between a physical change and a chemical change, and identify when a change is physical or chemical.
- Understand the difference between elements, compounds, and mixtures.
- Differentiate between homogeneous and heterogeneous mixtures.
- Describe the historical development of the atomic theory.
- Label the parts of an atom.
- Quantify the parts of an atom using the atomic number and mass number.
- Explain the history of the periodic table.
- Describe the arrangement of the periodic table.
- Identify chemical formulas of compounds.
- Differentiate between the types of chemical formulas.
- Use chemical formulas to count atoms.
- Describe molecular models.
- Describe chemical reactions.
- Identify evidence of physical and chemical change.
- Identify evidence of a chemical reaction.

- Explain chemical equations.
- Use chemical equations to describe a chemical reaction.
- Explain the law of conservation of mass.
- Be able to balance chemical equations.
- Describe the characteristics of acids and bases, and know the various uses of both in everyday products.
- Know what the pH scale is and how it is used.

Unit 3

- Describe a force.
- Differentiate between the different types of forces.
- Calculate the net force.
- Describe the impact of balanced and unbalanced forces on the net force.
- Describe motion and speed.
- Explain Newton's first law.
- Describe how Newton's first law acts in everyday situations.
- Differentiate between velocity and acceleration.
- Explain Newton's second law.
- Identify everyday situations using Newton's second law.
- Use and manipulate the equation of Newton's second law.
- Describe Newton's third law.
- Describe how Newton's third law applies to everyday situations.
- Define momentum.
- Explain the law of conservation of momentum.
- Compare and contrast potential and kinetic energy.
- Differentiate between the types of energy.
- Describe energy transformations.
- Define scientific work and differentiate between when work is and is not being done.
- Calculate scientific work.
- Identify simple machines.
- Describe how simple machines impact work completed.
- Relate Newton's laws to simple machines.
- Describe the contributions of Sir Isaac Newton.
- Identify the impact Newton had on the history of science.
- Describe how Newton's three laws affect roller coasters.

Unit 4

- Identify the major earth systems and describe specific interactions between the systems.
- Understand the fundamentals of the hydrosphere.
- Understand the key concepts of the water cycle, such as evaporation, condensation, and precipitation.
- Diagram the water cycle.
- Describe the structure of a water molecule.

- Describe hydrogen bonding and explain how it forms.
- Understand the structure of water in each of its three phases.
- Explain how hydrogen bonding between water molecules contributes to many of water's unique properties.
- Describe why water's unique properties help life exist on the earth.
- Explain how hydrogen bonding affects surface tension, cohesion, and adhesion.
- Identify the structure of the earth.
- Describe the layers of the earth.
- Explain the plate tectonics theory.
- Identify major tectonic plates.
- Describe the relationship between plate tectonics and Newton's Laws of Motion.
- Describe how plates move.
- Explain the evidence of plate tectonics theory.
- Describe plate boundaries.
- Relate plate boundaries to the formation of the earth's land features.
- Describe earthquakes and volcanoes.
- Identify the impact of plate tectonics on the formation of the earth's land features.
- Identify geological careers.
- Describe skills needed for a career in geology.
- Understand the fundamentals of the biosphere and atmosphere.

Unit 5

- Identify the characteristics of weather.
- Identify what causes wind.
- Explain how rotation impacts wind.
- Describe global winds and local winds.
- Describe surface currents and deep currents.
- Identify the impact of convection currents.
- Describe the factors that make up weather.
- Identify how solar energy impacts weather.
- Describe weather systems.
- Identify how weather systems change weather.
- Explain how hurricanes, tropical cyclones, and typhoons develop.
- Describe the scale system and hurricane damage.
- Identify the difference between climate and weather.
- Describe the greenhouse effect and global warming.
- Understand the different factors that influence climate.
- Understand the main factors that influence climate change.
- List the evidence for a warmer earth.
- Describe both natural and human factors for climate change.
- Understand possible future consequences of climate change.

Unit 6

- Describe aspects of Earth that make it habitable.
- Understand how rotation and revolution work.

- Describe the structure of the Sun.
- Describe the structure of the Moon.
- Explain exploration of the Moon.
- Model and illustrate how Earth's rotation causes day and night.
- Illustrate how the tilted Earth and revolution around the Sun cause the seasons.
- Differentiate between a solstice and an equinox.
- Describe the lunar phases and eclipses.
- Understand how tides are affected by the positions of the Moon and Sun.
- Define gravity.
- Explain the effects of gravity on Earth.
- Define microgravity.
- Explain the effects of microgravity.
- Define solar system.
- Describe the objects found in the solar system.
- Explain how objects move.
- Explain the units of distance measurement.
- Identify the functions of an astronomer.
- Describe the impact of famous astronomers.

Unit 7

- Differentiate between the types of galaxies.
- Describe the Milky Way galaxy.
- Describe the structure of stars.
- Classify stars based on temperature and color.
- Describe the Hertzsprung-Russell diagram and use it to classify stars.
- Describe the life cycle of a star.
- Predict the life cycle of different types of stars.
- Explain how the electromagnetic spectrum works.
- Describe how electromagnetic waves are used to view space objects.
- Describe the theories of how the universe was created.
- Identify claims and problems with each theory.
- Describe the early developments into space exploration.
- Describe the conflicts for human space travel.
- Identify accommodations made for space travel.
- Explain the impact space travel has on the health of the astronauts.
- Describe the history of NASA.
- Identify careers at NASA.

Unit 8

- Differentiate between abiotic and biotic factors.
- Identify the parts and interactions of an ecosystem.
- Understand what factors determine a biome.
- Describe the climate and adaptations of organisms in different biomes.

- Describe and compare different relationships between organisms in an ecosystem.
- Explain how energy moves within an ecosystem.
- Identify producers and consumers.
- Use food webs and energy pyramids to model the flow of energy.
- Describe the factors and resources that make ecosystems stable.
- Understand how biodiversity helps ecosystems be stable.
- Explain how the carbon and oxygen cycles work.
- Identify ways in which humans affect the carbon and oxygen cycles and their effects on ecosystems.
- Predict how short-term changes will affect population levels of different species.
- Predict how a species' traits might change over time when the environment changes.
- Describe how long-term changes affect population levels of different species.
- Describe different ways habitats can be conserved.

Unit 9

- Describe and diagram the parts of a watershed.
- Describe the importance of watersheds to humans.
- Describe aquifers and their role in making and storing clean groundwater.
- Understand how humans can impact watersheds, aquifers, and the freshwater supply.
- Describe water scarcity.
- Compare and contrast point and nonpoint pollution sources.
- Describe the interactions between biotic and abiotic factors in different freshwater ecosystems.
- Infer how short-term changes can affect populations of different freshwater organisms.
- Understand how humans depend on the ocean.
- Describe the different open ocean ecosystems.
- Understand and describe how humans impact the ocean with garbage, oil spills, and carbon dioxide.
- List solutions for cleaning up oil pollution.
- Identify key challenges that exist when trying to predict and manage change within an ecosystem.
- Understand the role that scale, proportion, and quantity play in ecosystem structure and performance.
- Explain the role of engineering in addressing and reducing the impacts of ecosystem changes.
- Understand how engineers help protect and restore ecosystems.
- Explain the role of an environmental engineer.
- Describe the contributions of Dr. Ellen Swallow Richards.
- Identify the impact of Dr. Ellen Swallow Richards in the field of environmental engineering.

Unit 10

- State the parts of cell theory.
- Describe the structures of cells.
- Differentiate between plant and animal cells.
- Identify different organisms and their characteristics.
- Classify different organisms into the correct kingdoms.
- Use a dichotomous key to identify an organism.
- Learn about and identify different human organ systems and their functions.
- Define heredity and explain genetic material.
- Recognize that traits are governed by genetic material.
- Compare and contrast asexual and sexual reproduction.
- Describe changes made in genetic traits in a population over time in nature.
- Describe how humans can breed organisms to get desired traits in a population.

Biology – 2nd Edition

Unit 1

- Define biology as a science.
- Describe reasons why studying biology is important.
- Define and compare hypotheses, theories, and laws.
- Learn to think about life in a scientific way.
- Describe major historical events in biology and their impact on society.
- Consider your possible role in the future of biology.
- Define and apply the scientific method.
- Design a great experiment.
- Define independent and dependent variables.
- Differentiate between quantitative and qualitative data.
- Know the standard units of measurement for biology.
- Perform basic operations to find area and volume.
- Learn how to find volume of irregularly shaped objects.
- Identify the limitations and advantages of a model.
- Understand what SI units are and why scientists use them.
- Understand the metric system and scale.
- Perform dimensional analysis for unit conversions.
- Plot data on a scatterplot and determine the relationship between the variables.
- Describe the types of graphs.
- Identify science safety equipment and safety symbols.
- Explain science safety rules and procedures.

Unit 2

- Name the five needs all life possesses.
- Describe matter and the elements that make up life.
- Recognize the parts of a chemical equation.
- Identify the four main biomolecules of life.
- Describe the function and structure of carbohydrates and lipids.
- Describe the function and structure of proteins and enzymes.
- Describe the function of nucleic acids.
- Identify the parts that make up DNA and RNA.
- Compare and contrast DNA and RNA.
- Evaluate research as being factual, promotional, or fictional.
- Analyze scenarios using cost-benefit analysis.
- Evaluate data to see if the mean is significant and representative of the population.
- Identify and explain error bars on a graph.

Unit 3

- Define ecosystem and understand what an ecosystem needs in order to survive.
- Distinguish between a population, organism, community, and ecosystem.
- Describe the different characteristics that make up the six kingdoms of life.
- Define biodiversity and analyze its benefits to ecosystems.
- Describe how human activity can impact biodiversity.
- Understand why plants, climate, and precipitation are used to characterize biomes.
- Describe different characteristics of different biomes and some adaptations the plants and animals have for particular biomes.
- Distinguish between different types of aquatic ecosystems.
- Compare and contrast different types of relationships between species in an ecosystem.
- Explain how energy moves within an ecosystem.
- Use food webs, energy pyramids, number pyramids, and biomass pyramids to model the flow of energy.
- Differentiate between the structure and function of an ecosystem.
- Understand how biodiversity helps ecosystems be stable.
- Explain how human activity impacts ecosystem stability.
- Describe the factors and resources that make ecosystems stable.
- Understand how population numbers affect ecosystem stability.
- Analyze how ecosystem stability is affected by changes in populations in the food web.
- Explain how the carbon and nitrogen cycles work.
- Explain how disrupting the nitrogen and carbon cycles affects ecosystems.
- Describe different ways habitats can be conserved.

Unit 4

- Define what a cell is.
- Understand the three parts of the cell theory.
- Compare and contrast the prokaryotic cell with the eukaryotic cell.
- Identify and name major organelles in cells and their functions.
- Compare and contrast plant and animal cells.
- Understand the organization of living things (cells, tissues, organs, and organ systems).
- Understand the fluid mosaic model for the plasma membrane in cells.
- Explain how substances move in and out of cells through diffusion and osmosis.
- Define photosynthesis and explain how it converts light energy into food.
- Compare the products and reactants of the light-dependent and dark reactions of photosynthesis.
- Define cellular respiration and explain how it converts food into energy.
- Compare the Krebs cycle with photosynthesis.
- Compare and contrast aerobic and anaerobic respiration.
- Understand how organisms grow.

- Define cell cycle and the parts of the cell cycle—interphase and mitosis.
- Name the three phases of interphase and what happens in each phase.
- Understand how eukaryotic cells divide.
- Name the four phases of mitosis and identify when a cell is in each phase.
- Define homeostasis and understand the processes it helps regulate.
- Understand how changes to the cell cycle can lead to cancer.

Unit 5

- Define genetics and understand its importance to life.
- Describe how the theory of inheritance has changed over time and its impact on society.
- Understand Mendelian principles of inheritance.
- Define and understand how alleles, genes, and traits are passed from parents to offspring.
- Compare and contrast phenotype and genotype.
- Fill out Punnett squares and predict the probability of passing on certain traits.
- Understand principles of non-Mendelian inheritance.
- Predict outcomes from crosses that have codominance, incomplete dominance, and multiple alleles.
- Describe how meiosis produces haploid cells used in sexual reproduction.
- Explain how haploid cells, crossing over, and independent assortment in meiosis increases genetic diversity.
- Compare and contrast the differences between haploid and diploid cells.
- Understand how DNA replication works and be able to model a complementary strand from a parent strand.
- Describe how gene expression tells a cell which proteins to make.
- Describe and model the process of gene expression through the building proteins by transcription and translation.
- Read the genetic code and find the amino acids by interpreting a table.
- Define mutations and identify point, frameshift insertion, and frameshift deletion mutations.
- Explain why some mutations have no effect on an organism.
- Predict outcomes for offspring with sex-linked trait mutations.
- Understand how chromosomal genetic disorder works.

Unit 6

- Define evolution.
- Evaluate and describe the idea of phylogenies.
- Relate the fossil record and the geologic timeline to evolution.
- Understand and evaluate how the fossil record, biogeography, anatomical homology, molecular homology, and developmental homology are used as evidence of common ancestry.
- Analyze the principles involved in natural selection.
- Describe how speciation might work through natural selection in populations, not individuals.

- Evaluate the proposed mechanics of natural selection.
- Compare two theories to describe different rates of change in speciation.
- Compare theories concerning the origins of DNA and complex cells.
- Describe controversies regarding the theory of evolution.
- Describe the history of taxonomy in science.
- Understand the importance of a standardized taxonomic system.
- Categorize organisms using a hierarchical classification system based on similarities among groups.
- Compare characteristics of taxonomic groups, including archaea, bacteria, protists, fungi, plants, and animals.

Unit 7

- Define eubacteria and archaebacteria and differentiate between them.
- Draw the basic structure of bacteria.
- Differentiate between the two ways bacteria reproduce.
- Describe how bacteria are helpful to ecosystems and humans.
- Describe how bacteria cause disease and are harmful to humans.
- Explain why cyanobacteria are special bacteria.
- Define and differentiate among the different archaebacteria.
- Understand the structure of a virus and how it differs from other living organisms.
- Describe the reproductive cycles of viruses (lysogenic and lytic).
- Understand and explain how viruses spread and cause disease.
- Compare the structure of viruses to the structure of cells.
- Define what a protist is and is not, and describe the problems with classifying protists.
- Describe how protozoans are helpful and harmful to the environment, especially in regard to sporozoans and disease.
- Describe the different types of algae and phytoplankton and how they are both beneficial and harmful to the environment.
- Describe the different types of fungus-like protists and how they are both beneficial and harmful to the environment.
- Define fungus and give reasons why fungi get their own kingdom.
- Understand the basic structure of fungi.
- Describe different ways fungi produce asexually and sexually.

Unit 8

- Define plant.
- Understand, draw, and label the basic plant structures (root, stem, and leaf).
- List the different types of nonvascular plants and identify the main environmental conditions they need to live in.
- Understand that mosses, liverworts, and hornworts reproduce through the alternation of generations and that the typical plant is in the gametophyte generation.

- Differentiate between the major types of seedless vascular plants: club mosses, horsetails, and ferns.
- Describe how seedless vascular plants reproduce through spores in the alternation of generations, with the typical plant in the sporophyte generation.
- Define gymnosperms and recognize the major groups.
- Define how gymnosperms reproduce through the alternation of generations with separate male and female cones, with the sporophyte generation as the typical plant.
- Define angiosperms and compare and contrast them to the other types of plants.
- Understand the adaptations of flowering plants and how they affect their survival.
- Recognize and label the different parts of a flower.
- Explain how different flower parts aid in fertilization and seed formation.
- Describe seed dispersal and germination.

Unit 9

- Describe the function and structure of the integumentary system.
- Describe the function and structure of the skeletal system.
- Describe the function and structure of the muscular system.
- Describe the function and structure of the respiratory system.
- Describe the function and structure of the circulatory system.
- Explain the interaction between the circulatory and respiratory systems.
- Describe the function and structure of the digestive system.
- Describe the function and structure of the urinary system.
- Describe the function and structure of the nervous system.
- Describe the function and structure of the endocrine system.
- Describe the function and structure of the lymphatic system.
- Describe the function and structure of the immune system.
- Describe the function and structure of the reproductive system.
- Explain how different body systems interact for reproduction and nutrient absorption.
- Explain how different body systems interact for defense against injury and illness.
- Explain how different body systems interact for regulation of internal environment.

Unit 10

- Define animal.
- Understand how animals are classified according to their body symmetry.
- Define endoskeleton and exoskeleton, and distinguish between the types of animals that have them.
- Distinguish between vertebrate and invertebrate animals in terms of skeleton type and behaviors.
- Define and distinguish between learned and innate behavior in animals.
- Understand the steps of development that are similar in all animals.

- Understand the importance of invertebrates in our world, both helpful and harmful.
- Differentiate between the different groups of invertebrates (sponges, cnidarians, flatworms, roundworms, mollusks, segmented worms, arthropods, echinoderms, and invertebrate chordates).
- Classify organisms based on development, reproduction, body symmetry, and methods for obtaining food.
- Understand the increasing complexity of animals from the sponges to the echinoderms.
- Describe the characteristics of vertebrates.
- Name the major classes of vertebrates.
- Understand what makes a fish a fish, an amphibian an amphibian, a reptile a reptile, a bird a bird, and a mammal a mammal.
- Name characteristic animals and behaviors in each class of vertebrates.

Integrated Physics & Chemistry – 3rd Edition

Unit 1

- Define science, and identify the different subdisciplines within the fields of physical science.
- Distinguish between a scientific theory and scientific law, and describe the limitations of science.
- Distinguish between early, traditional, and modern periods of chemistry.
- Describe the influence of philosophers on the early beginnings of physics.
- Identify the scientific revolution and science contributions during this time.
- Explain the period of modern physics and discoveries that were made.
- Describe the scientific method and six steps that are used.
- Describe the steps taken when designing and planning a research experiment, including making a hypothesis.
- Compare and contrast different types of research methods.
- Identify the role of a procedure in an experiment.
- Compare and contrast independent, dependent, and control variables.
- Explain the importance of using multiple trials.
- Define bias, and identify the ways to reduce or prevent bias.
- List the “dos” and “don’ts” of laboratory safety practices.
- Understand how to use critical thinking skills when solving problems.
- Describe the five science process skills and how to use them in support of a scientific argument.
- Know the importance of the peer-review process in science.
- Identify the common SI prefixes and units and what they represent.
- Recognize the importance of significant figures and how to use the rules when rounding.
- Demonstrate how to perform a dimensional analysis science problem.
- Distinguish between inverse and direct relationships.
- Define a trend and identify how to locate one in a graph.

Unit 2

- Describe the relationship between matter, atoms, and elements.
- Distinguish the different characteristics of matter.
- Compare the mass and weight of matter.
- Contrast between elements and compounds.
- Explain the differences between physical and chemical properties of matter.
- Compare and contrast extensive and intensive properties.
- Describe why a pure substance is different from an element.
- Compare and contrast homogeneous and heterogeneous mixtures.
- State and outline the kinetic theory of matter.
- Describe the characteristic properties of the states of matter.
- Explain the differences between a solid, liquid, and gas.
- Relate the kinetic theory of matter to the different characteristics of a solid, liquid, and gas.
- Identify the role of energy with the different states of matter.

- Describe the different phase changes.
- Compare and contrast exothermic and endothermic changes.
- Predict how a particle behaves in response to a phase change.
- Identify a phase change by looking at a graph.
- Define and explain the importance of Boyle's law.
- Define and explain Charles's law in relation to gas particles.
- Identify and characterize physical and chemical changes.
- Discuss the relationship between chemical changes and a chemical reaction.
- Explain the law of conservation of mass (or matter).
- Define buoyancy and describe its relationship to density.
- Characterize the properties of a fluid.
- Explain Archimedes' and Pascal's principles.
- Identify the different measuring tools when working with liquids, solids, or gases.

Unit 3

- State the ideas about atoms developed by Democritus, Dalton, Thomson, and Rutherford.
- Summarize the various models about the atom and its structure.
- State and draw the parts of an atom including its charge, mass, and location.
- Describe the movement of electrons in their energy levels.
- Explain the way electrons behave in an atom as a wave.
- Describe how to locate an electron by using atomic orbitals.
- Define valence electrons and relationship to atomic structure.
- Explain and draw Bohr models.
- Outline the history of the development of the periodic table.
- Define periodic law.
- Relate the periodic table organization to the electron arrangement in an atom.
- Explain how ions are formed when atoms gain or lose electrons.
- Determine the number of protons, neutrons, and electrons in an atom using atomic mass, atomic number, and symbol.
- Define isotopes.
- Distinguish between metals, metalloids, and nonmetals.
- Identify the location of halogens on the periodic table and describe their properties.
- Locate noble gases on the periodic table and describe their properties.
- Define the different periodic trends: atomic radius, electronegativity, and ionization energy.
- Identify the periodic trend of valence electrons.
- Determine how to find the number of valence electron for the first 20 elements on the periodic table.

Unit 4

- Describe an ionic bond and its unique characteristics.
- Demonstrate how to use the periodic table to predict which elements can form ionic bonds.
- Define a covalent bond and understand how it is formed.
- Distinguish the differences between ionic and covalent bonds.

- Define oxidation number and what process is used to calculate it.
- Write the chemical names and formulas for ionic compounds.
- Write the chemical names and formulas for covalent compounds.
- Distinguish between molecular and empirical formulas.
- Identify the signs that indicate a chemical reaction is taking place.
- Explain the different components of a chemical reaction.
- Demonstrate how to find the number of coefficients in a chemical reaction.
- Distinguish between the five different types of chemical reactions.
- Predict products of reactions based on the identification of reaction type.
- Compare and contrast an endothermic and exothermic reaction.
- Describe the factors that affect rates of a chemical reaction.
- Demonstrate the steps used to balance chemical equations.
- Explain the law of conservation of mass and how a chemical reaction satisfies this law.
- Describe the negative impact of chemical reactions on Earth.

Unit 5

- Outline the components of a solution and how they form.
- Identify the factors that affect the rate of dissolution.
- Identify how to express concentration using percent volume and mass.
- List and describe the three different types of solutions.
- Outline the chemistry of a water molecule and how this influences solubility.
- Explain how polarity plays a role in the way solvents work.
- Determine which solvent is the best to use.
- Compare and contrast the different characteristics of acids and bases.
- Describe pH in terms of the concentration of hydronium and hydroxide ions in a solution.
- State the relationship between ionization and dissociation as it applies to acids and bases.
- Describe the solutions of weak acids and bases when compared to strong acids and bases.
- Identify the products of a neutralization reaction.
- Identify differences between organic and inorganic compounds.
- Explain the unique bonding properties of the carbon atom.
- Discuss the history and discovery of radioactivity.
- Describe half-life and how it relates to radioactive decay.
- Compare the three different types of decay: alpha, beta, and gamma.
- Contrast nuclear fission and fusion.
- Describe how the composition of an atom’s nucleus is affected by the strength of a nuclear force.
- Describe the different stages in a star’s life cycle.
- Use a diagram to classify stars and predict a star’s next step in its life cycle.

Unit 6

- Explain the differences between displacement and distance.
- Distinguish between speed and velocity.

- Solve for the displacement, distance, and speed of an object in motion.
- Explain the relationship between acceleration, time, and velocity.
- Determine how positive and negative acceleration affects motion.
- Calculate the acceleration of an object.
- Identify and determine an object's acceleration on a velocity and time graph.
- Interpret the speed of an object from distance and time graphs.
- List the steps needed to plot distance-time graphs.
- Differentiate between an unbalanced and balanced force.
- Compare and contrast the different types of friction.
- Describe inertia and how it is related to Newton's first law of motion.
- Contrast field and contact forces.
- Define and distinguish between normal force, elastic force, and tension force.
- Demonstrate how to combine forces using free body diagrams.
- Distinguish between mass and weight with respect to gravity.
- Explain free fall acceleration and its relation to weight.
- Apply the concept of gravitational force to satellite motion and projectile motion.
- State Newton's second law of motion.
- Apply Newton's second law of motion to solve for acceleration and net force.
- Differentiate between force, mass, and acceleration.
- Describe Newton's third law of motion.
- Identify action and reaction forces.
- Explain and calculate momentum.

Unit 7

- Determine the work that is done on an object.
- Describe the relationship between work and energy.
- Demonstrate how to calculate work and power.
- Explain the purpose of machines and their relation to work and force.
- Identify the different types of simple and compound machines.
- Calculate the mechanical advantage for a simple machine.
- Explain machine efficiency and its importance to work.
- Calculate machine efficiency.
- Explain the relationship between work, energy, and power.
- Define kinetic and potential energy.
- Describe the different forms of potential energy.
- Compare the different characteristics of kinetic and potential energy.
- Describe the key differences in measuring potential energy and kinetic energy.
- Calculate kinetic energy and potential energy.
- Define electrical, sound, light, nuclear, and chemical energy.
- Distinguish between the different forms of energy.
- Define mechanical energy and its different types.
- Provide examples of energy transformations for different types of energy.
- Explain how energy is conserved in a closed system.
- Identify the different types of energy resources that are used by living things and explain their advantages and disadvantages.
- Define fossil fuels and their use as an energy source.
- Explain the carbon cycle and its contribution to the production of energy resources.

Unit 8

- Describe and explain the relationship between temperature, thermal energy, and heat.
- Distinguish between the different ways thermal energy is transferred—conduction, convection, and radiation.
- Compare and contrast between an insulator and conductor.
- Explain the first and second laws of thermodynamics.
- Describe the dynamics between heat and work.
- Define a wave and how waves are related to energy and matter.
- Describe the difference between transverse and longitudinal waves.
- Outline and define the different components that make up a wave.
- Explain the relationship between frequency and wavelength.
- Calculate the speed of a wave.
- Define how a wave behaves when it reflects and changes direction.
- Compare and contrast diffraction and refraction.
- Explain the behavior of waves when they interfere with each other.
- Describe the nature of sound and the waves it produces.
- Outline the parts of the ear and how it functions to let you hear.
- Identify and define the different properties of sound: amplitude, intensity, loudness, and how they relate to each other.
- Explain how frequency is related to pitch.
- Define the Doppler effect and discuss its applications.
- Recognize and describe the different ways sound waves can be used.

Unit 9

- Describe an electromagnetic wave and how electric and magnetic fields are related.
- List the properties of electromagnetic waves.
- Describe the electromagnetic spectrum and its relation to frequency.
- Outline the different regions where waves are located on the spectrum.
- Compare and contrast different electromagnetic waves along with their properties.
- Describe, compare, and contrast the types of electromagnetic waves—visible light, ultraviolet light, x-rays, and gamma rays.
- Outline how visible light contributes to the ability to see different colors of an object.
- Describe the properties of light and its nature as an electromagnetic wave.
- Contrast the difference between regular and diffuse reflection.
- Explain how we are able to see different colors of light on the visible spectrum.
- Describe how we are able to see other colors not part of the visible spectrum.
- Define pigmentation and how this influences our ability to see the color of an object.
- Contrast the differences between cone and rod cells.
- State the different ways light is produced.
- Contrast between incandescent and fluorescent light.
- Contrast between real and virtual images.

- Contrast between concave, convex, and plane mirrors.
- Explain how an image is formed with concave and convex lenses.
- Describe the examples of optical instruments and their response to the behavior of light.
- Contrast a reflective and refractive telescope lens; explain how focal length influences the images you can see with a lens.
- Describe the size and shape of the galaxy.
- Identify the different galaxies, including the Milky Way galaxy.
- Describe how the universe expands and its relation to the Doppler shift.
- Explain the big bang theory and how this theory describes how the universe formed.

Unit 10

- Describe an electric charge and the properties of charged particles.
- Define static electricity and provide examples.
- Explain how particles become charged and affect one another.
- Use Coulomb's law to describe the electrostatic attraction between objects.
- Contrast between electric conductors and insulators.
- Explain how electrons move when a voltage difference is established.
- State the factors that affect electric resistance in an object and define Ohm's law.
- Outline the differences between series and parallel circuits.
- Calculate the electrical power used to power a device.
- Explain how magnets are capable of exerting forces on each other.
- Describe how a magnet behaves.
- Relate the behavior of magnetism to magnetic fields.
- Describe why some materials are magnetic.
- Explain what electromagnets are and how they are used.
- Explain how electromagnets produce magnetic fields.
- Define and explain electromagnetic induction.
- Explain electrical generators.
- Relate the production of an electrical current to the use of an electrical generator.
- Distinguish between alternating and direct currents.
- Contrast two different types of electric signals—analog and digital signals.
- Define a semiconductor and its function in the development of parts for electronic devices.
- Review the history of electricity and electronic devices.
- Describe the practical applications of electromagnetism.
- Explain how electromagnetism is important to circuitry and communication devices.

Chemistry – 2nd Edition

Unit 1

- Define chemistry and the importance of its contributions to science and society.
- Distinguish between early, traditional, and modern periods of chemistry.
- Describe the different careers in chemistry.
- Compare and contrast hypotheses, scientific theories, and scientific laws.
- Describe some examples of scientific laws and theories created by notable scientists.
- Describe the scientific method and the six steps that are involved.
- Compare and contrast different types of research methods.
- Describe the base units of measurement.
- Differentiate among the units of measurement for length, mass, volume, and temperature.
- Compare accuracy and precision.
- Practice converting numbers from standard form to scientific notation.
- Practice using the rules of significant figures to make a number precise.
- Practice using dimensional analysis to convert units.
- Distinguish different ways to conduct research.
- Describe how to remain neutral and avoid bias.
- Describe the different relationships observed between variables when analyzing graphs.
- Evaluate data for statistical significance.
- Describe the general guidelines for laboratory safety.
- Describe the common safety equipment used in a laboratory.

Unit 2

- Classify matter as an element, compound, or mixture.
- Explain the different physical and chemical properties of matter.
- Identify the different properties of molecules and compounds.
- Describe the properties of water and what makes it a unique molecule.
- Describe the purpose of models in science.
- Use modeling to explain the connection between chemistry and engineering.
- Describe the contributions of Greek philosophers to the atomic theory.
- Explain how Dalton developed his postulates using experimentation and knowledge of chemistry laws.
- Describe the contributions of Dalton to the development of the atomic theory and draw a model of his atom.
- Explain how electrons were discovered with help from experiments such as Crookes tube and Geissler tubes.
- Describe the plum pudding model and its contribution to understanding an atom.
- Describe an atomic nucleus according to the Rutherford's model.
- Explain the relationship between wavelength and frequency.

- Explain how light behavior was used to discover energy quantization and then applied to atoms.
- Summarize the Bohr model and how it describes an atom's structure.
- Describe the movement of electrons in their energy levels.
- Draw Bohr models.
- Describe how Heisenberg and Schrodinger shaped the current accepted model of an atom.
- Identify the masses, electrical charges, and the location of subatomic particles in the atomic cloud model.

Unit 3

- Recognize the contributions to the development of the periodic table by its early developers.
- Understand the concept of periodicity of the elements based on their atomic numbers.
- Identify periods and groups in the periodic table.
- Describe the contributions of scientists to the modern periodic table.
- Understand and apply isotopic notation.
- Calculate the average atomic mass of isotopes.
- Describe energy levels (shells), sublevels, and orbitals.
- Use electron configuration rules to write different electron configurations.
- Model electron configuration with orbital diagrams.
- Compare and contrast metals, metalloids, and nonmetals.
- Determine the family to which an element belongs by examining its properties.
- Describe the properties of noble gases and halogens.
- Compare and contrast elements of the noble gas and halogen families.
- Predict atomic radii and ionization energy trends with the periodic table.
- Predict electronegativity and reactivity trends with the periodic table.

Unit 4

- Explain how intramolecular forces are related to chemical bonding.
- Contrast the characteristics of intramolecular and intermolecular forces of attraction.
- Understand the basis for ionic, covalent, and metallic bonding.
- Predict the type of bond formed between two elements.
- Describe the properties of metals and how that relates to metallic bonding.
- Explain the role of electrostatic attraction and delocalized electrons in forming metallic bonds.
- Explain how to determine the percent ionic character of a compound.
- Understand the meaning of electrostatic value and how that relates to metallic bonding.
- Describe the properties of ionic compounds.
- Differentiate between monatomic and polyatomic ions.
- Describe the properties of covalent compounds.

- Outline the role of using bond energy and length to understand the properties of covalent compounds.
- Explain the importance of using chemical nomenclature.
- Differentiate organic and inorganic compounds.
- Describe the hierarchy of how different compounds are formed.
- Explain the purpose of establishing the International Union of Pure and Applied Chemistry (IUPAC).
- Define oxidation numbers and their significance in naming chemical compounds.
- Explain how Greek prefixes are used to name compounds.
- Use examples to differentiate empirical formulas from molecular formulas.
- Name and write formulas for ionic compounds following IUPAC rules.
- Name and write formulas for covalent compounds following IUPAC rules.
- Identify the key steps (and exceptions) to keep in mind when drawing Lewis structures.
- Practice drawing Lewis structures.
- Describe the valence shell electron pair repulsion (VSEPR) theory and how it is related to molecular geometry.
- Explain how the VSEPR theory is used to determine the Lewis structure of a molecule.
- Describe the connection of the VSEPR theory to hybridization in terms of electron arrangement and chemical bonding.

Unit 5

- Describe a word equation, formula equation, and chemical equation.
- Explain how equations need to be balanced to follow the law of conservation of mass.
- Practice balancing chemical reactions.
- Identify the characteristics of synthesis, decomposition, single replacement, double replacement, combustion, and oxidation-reduction reactions.
- Describe the characteristics of synthesis reactions and balance the reactions.
- Describe the characteristics of decomposition reactions and balance the reactions.
- Describe a single replacement reaction and its characteristics.
- Balance single replacement reactions.
- Identify the characteristics of a double replacement reaction.
- Balance double replacement reactions.
- Describe the characteristics of a combustion reaction.
- Compare and contrast an endothermic and exothermic reaction.
- Describe the factors that affect rates of a chemical reaction.
- Explain why incomplete combustion reactions occur.
- Use examples to describe combustion reactions.
- Practice balancing chemical reactions.
- Distinguish between acid-base, precipitation, and oxidation-reduction reactions.

Unit 6

- Compare and contrast composition stoichiometry and reaction stoichiometry.
- Define percent composition and limiting and excess reactants.
- Understand the concept of molar mass and the relationship between the mole and the mass of a substance.
- Calculate the molar mass of substances.
- Describe the relationship between stoichiometry and percent composition.
- Calculate the percent composition of a compound.
- Perform mole-mole stoichiometric conversions.
- Perform mole-mass, mass-mole, and mass-mass stoichiometric conversions.
- Compare and contrast empirical and molecular formulas.
- Describe the different types of chemical formulas.
- Determine an empirical formula given percent composition data.
- Determine a molecular formula given molar mass and percent composition data.
- Contrast limiting and excess reactants.
- Use mole and mass conversions to determine the limiting reactant.
- Compare and contrast theoretical yield and actual yield.
- Calculate percent yield.

Unit 7

- Contrast how particles behave among a gas, solid, and liquid during phase changes.
- Describe the relationships among pressure, volume, and temperature in gases.
- Describe the kinetic-molecular theory of gas.
- Describe the direct and indirect relationships of gas particles under various conditions.
- Describe the experiments Robert Boyle performed to formulate Boyle's law.
- Perform calculations using Boyle's law.
- Use Charles' law to describe the relationships among volume, pressure, and temperature for an ideal gas.
- Perform calculations using Charles' law.
- Describe the experiments used to theorize Gay-Lussac's law.
- Perform calculations that require the use of Gay-Lussac's law.
- Use mathematical expressions to describe the combined gas law.
- Perform calculations using the combined gas law.
- Describe the relationships among volume and the number of moles for an ideal gas.
- Know the principles of Avogadro's law.
- Perform calculations using Avogadro's law.
- Make calculations using the ideal gas equation.
- Relate the amount of gas consumed or released in a chemical reaction to the stoichiometry of the reaction.
- Describe Dalton's law of partial pressures.
- Perform calculations using Dalton's law of partial pressures.

Unit 8

- Describe the unique role of water in solutions in terms of polarity.
- Explain why water is a universal solvent.
- Identify and describe the different properties of water.
- Contrast the differences between solvation and dissolution.
- Compare and contrast strong electrolytes, weak electrolytes, and nonelectrolytes.
- Describe the factors that affect the rate that a solute and solvent form a solution.
- Explain how a substance dissolves and then recrystallizes.
- Compare and contrast saturated, unsaturated, and supersaturated solutions.
- Use solubility graphs (or curves) to determine whether a solution is saturated, unsaturated, or supersaturated and to determine how much a solute will dissolve in a solution.
- Compare and contrast the solubility of gases and solids, including their solubility curves.
- Describe the relationship between gas pressure and solubility.
- Describe the purpose of using solubility rules in chemistry.
- Use solubility rules to predict whether a precipitate will form in a reaction.
- Describe how to prepare a molar solution in a laboratory.
- Calculate the molarity of a solution.
- Describe a dilution and why this is used in the laboratory or real life.
- Calculate the dilutions of solutions using molarity.

Unit 9

- Compare and contrast the different characteristics of acids and bases.
- Explain the purpose of an indicator and pH in differentiating between acids and bases.
- Identify whether a substance is acidic or basic by using the pH scale.
- Calculate the pH and pOH of a solution.
- Identify differences between binary acids and oxyacids.
- Use International Union of Pure and Applied Chemistry (IUPAC) rules to name acids and bases.
- Understand the principles of the Arrhenius acids and bases.
- Differentiate between Arrhenius acids and Arrhenius bases.
- Understand the principles of the Brønsted-Lowry definitions of acids and bases.
- Distinguish between Brønsted-Lowry and Arrhenius acids and bases.
- Practice identifying a Brønsted-Lowry acid or base in a chemical equation.
- Explain the property of water being amphoteric and self-ionization.
- Explain how the self-ionization of water relates to acid-base reactions.
- Know the basis of acid-base neutralization reactions.
- Describe the solutions of weak acids and bases when compared with strong acids and bases.
- Differentiate between strength and concentration.
- Describe the process of titration and how acids and bases neutralize each other.
- Calculate a molar concentration after using the data from a titration reaction.

Unit 10

- Define thermochemistry and differentiate between heat, thermal energy, and temperature.
- Describe the zeroth law of thermodynamics including real world applications.
- Describe the first law of thermodynamics including real world applications.
- Describe the second law of thermodynamics including real world applications.
- Describe the third law of thermodynamics.
- Describe and interpret phase diagrams.
- Describe specific heat and how to calculate this value using specific heat.
- Explain the process of calorimetry to measure the transfer of heat.
- Perform calculations using the $q = mc\Delta T$ formula.
- Differentiate between heat of fusion and heat of vaporization.
- Compare and contrast endothermic and exothermic chemical processes and reactions.
- Compare the three different types of particles: alpha, beta, and gamma.
- Contrast the three different types of radioactive decay.
- Balance nuclear equations.
- Contrast nuclear fission and fusion reactions.

Physics

Unit 1

- Describe the scientific methods that lead to theories and scientific laws.
- Learn the steps in the scientific method.
- Answer questions about scientific concepts.
- Explain the steps of the scientific method.
- Use laboratory equipment safely.
- Identify safety signs in the laboratory.
- Describe the metric system.
- Make measurements using the metric system.
- Convert British measurements to metric terms.
- Convert metric measurements to British terms.
- Convert metric units by multiplication or division by 10.
- Choose the right metric units for distance, area, volume, and weight and mass.
- Describe derived units.
- Describe accuracy and precision as they apply to measurement, and describe the difference between the two concepts.
- Distinguish, identify, and use significant digits.
- Use the rules for rounding numbers.
- Understand how to use significant figures in mathematical operations.

Unit 2

- Define mass and the difference between mass and weight and their units.
- Explain the concept of density and its units.
- Describe force and its units.
- Describe motion and relative motion.
- Explain the difference between scalar and vector quantities.
- Communicate how unbalanced forces create motion.
- Understand how motion results in displacement, the definition of displacement, and how to compute displacement.
- Know how displacement relates to speed.
- Define speed, know the units of speed, and be able to compute speed.
- Know the differences among instantaneous speed, uniform speed, and average speed.
- Comprehend how speed relates to velocity.
- Define velocity, memorize velocity's units, be able to compute velocity, and know how vectors change.
- Understand how velocity relates to acceleration.
- Define acceleration, know the units of acceleration, and be able to compute acceleration.
- Understand Newton's three laws of motion.
- Communicate the relationships among force, mass, and acceleration and be able to use the formula F = ma.
- Understand the force of friction and its causes.

- Interpret a free-body force diagram.

Unit 3

- Learn the historical development of scientists' understanding of gravitation.
- Understand the concept of inverse-square law and how it applies to universal gravitation and the gravitational constant.
- Learn how gravity accelerates falling objects and to calculate the distance an object falls when under the influence of acceleration due to gravity.
- Understand the concepts of impulse and momentum and their relationship.
- Understand and apply the concept of conservation of momentum in elastic and inelastic collisions.
- Understand and compute linear and nonlinear motion.
- Understand and use the concepts of rotation, revolution, angular speed, tangential speed, centripetal force, centrifugal force, center of gravity, rotational inertia, and torque as they apply to circular motion.
- Understand the concepts of potential energy, kinetic energy, mechanical energy, and pure energy.
- Understand that in the conversion of energy from one form to another, energy is conserved.
- Understand and apply the concept of work to real-life situations.
- Understand and apply the concept of power to real-life situations.

Unit 4

- Learn and use the definitions and units of work and power.
- Describe the components of mechanical energy.
- Describe the forms of potential energy.
- Understand the formulas for computing torque as a measurement of force for work.
- Describe and compute Mechanical Advantage (M.A.) of various machines.
- Identify and describe the uses of simple machines.
- Understand and identify the three types of levers.
- Describe the combined M.A. of the simple machines found in a screw.
- Compute efficiency of machines.
- Learn to identify equilibrium based upon net forces.
- Compare and contrast translational versus rotational equilibrium.
- Compare and describe the four fundamental forces.
- Understand and explain the difference between gravitation and gravity.
- Recognize the shape of orbitals of the planets.
- Explain Kepler's law of periods.
- Describe and use the inverse-square law.
- Recognize and describe Coulomb's Law.

Unit 5

- Explore the science of electrostatics.

- Understand the electrical charge, net charge, and the conservation of charge in a closed system.
- Understand polarity, the difference between insulators and conductors, and the function of a ground wire.
- Learn and apply the formulas for Coulomb's law, which shows that the strength of an electric field between two objects is an inverse-square relationship that concerns the distance between the two objects.
- Understand the similarities and differences between electric and gravitational forces and use lines of force to represent an electric force's vectors.
- Define an electric field, and understand the concepts and formulas for magnitude of a force at a point in the electric field, electrical potential energy, and electric potential.
- Understand that it is a difference in electrical potential that allows electrical current to flow through conductors, that electric current is created by chemical means, thermoelectric, photoelectric, or induction.
- Understand the concept of capacitance, measured in units of farad.
- Understand the concept of resistance and how it is related to current and voltage in Ohm's law (V = IR), measured in units of ohms.
- Learn how a diode can convert alternating current to direct current.
- Understand that electric power is voltage times current or how many joules of work can be done in one second.
- Understand the difference between series and parallel circuits.
- Understand the concept of magnetism and use lines of force to show a magnet's magnetic field.
- Understand that the ability of a material to become magnetized is often due to the fact that more electrons spin in one direction than in another and also to magnetic domains in the material.

Unit 6

- Understand how moving charges create magnetism.
- Learn the relationship between electric currents and magnetic fields, and the definition of an electromagnet.
- Learn the right-hand rule about the direction of the magnetic field in relation to an electric current in a wire, and realize why the right-hand rule relates to the production and use of electric motors.
- Define a solenoid, and know the reaction of a compass to a current-carrying wire.
- Learn about different electric meters that measure electric current, including galvanometers, ammeters, and voltmeters.
- Communicate the definition of electromagnetism.
- Understand how sending an electric current through a conductor results in electromagnetic induction or the production of a magnetic field.
- Examine and understand Faraday's Law.
- Know about DC motors, generators, and transformers.
- Learn about Thomas Alva Edison's, Nikola Tesla's, and George Westinghouse's innovations and involvements in the battle between DC and AC electric current.
- Understand how alternating current is generated.
- Examine the functions of rheostats and relay switches.
- Know how fuses and circuit breakers serve to provide safety in electrical circuits.

- Define electric shock and electrocution and how to prevent being victimized by them.
- Know the differences between incandescence and fluorescence.
- Understand how the use of fossil fuels and nuclear materials for electricity production are exhaustible because these resources are nonrenewable.
- Learn that solar power, wind power, hydropower, and nuclear fusion are on the forefront of the development of renewable resources for the production of electricity.
- Discover that solar power may be used to run mechanical systems and photovoltaic cells, and what photovoltaic cells are.
- Learn about the usage of wind power to produce electricity and how it is growing.
- Define hydroelectricity and understand how it is generated.
- Discover that hot rocks or hot water can result in geothermal electricity production.

Unit 7

- Understand the definitions of heat and temperature.
- Learn how a substance's internal energy is related to the motion of its molecules and how the addition of heat increases their speed.
- Understand the concept of thermal equilibrium.
- Realize that when energy is added to a substance, the average kinetic energy remains constant, while the potential energy increases until a phase change occurs.
- Study the different temperature scales—Fahrenheit, Celsius, and Kelvin—and the freezing and boiling points of water on them.
- Learn the different uses for the Fahrenheit, Celsius, and Kelvin temperature scales.
- Understand the definition of thermal energy.
- Recognize that heat always flows from an area of higher temperature to an area of lower temperature.
- Learn the different units used for heat.
- Know the differences among the caloric, phlogiston, and modern-day theories for the movement of heat from one substance to another.
- Learn how friction in certain mechanical systems is converted into heat.
- Understand the definition for linear expansion and the formulas for the linear thermal expansion coefficient and the coefficient of volume expansion.
- Learn the definition of and formula for specific heat capacity.
- Know that substances' specific heat capacities are often written in comparison to water's specific heat capacity.
- Understand what phase changes are and how energy changes produce them.
- Learn what latent heat is and how it involves two types of transformation—enthalpy or heat of fusion and enthalpy or heat of vaporization.
- Recognize that there are three types of heat transfer: conduction, convection, and radiation.
- Learn the laws of thermodynamics.
- Understand that a mechanical system can never be 100% efficient and how to determine an engine's ideal efficiency.

Unit 8

- Describe harmonic motion.
- Describe the exchange of forces in a pendulum.
- Explain the idea of equilibrium.
- Describe transverse and longitudinal waves and identify their components.
- Explain the relationship of a wave's speed, frequency, and wavelength.
- Describe the interactions of waves, including interference and diffraction.
- Describe various aspects of sound waves.
- Explain the concept of spherical wave fronts.
- Describe and illustrate the Doppler effect.
- State the relationship between electric and magnetic fields within an electromagnetic wave.
- Explain the inverse-square law as it relates to electromagnetic waves.
- Describe the various types of energy waves in the electromagnetic spectrum.
- Describe the formation and perception of light.
- Explain the difference between transparent and opaque objects.
- Describe the reflection and refraction of light.
- Tell how ray tracings are used to trace the path of light through a mirror or lens system.
- Give the formula for finding the position of a real image.
- Describe the diffraction of light.
- Explain how frequency affects color.

Unit 9

- Explain the emission of light.
- Explain how classical physics fails to explain the emission of light.
- Discuss emission spectra, including emission and absorption lines.
- Describe the use of a spectroscope.
- Describe the effect of heat on light emissions.
- Describe the wave-duality nature of light.
- Describe a blackbody.
- Discuss the ultraviolet catastrophe.
- Explain Max Planck's influence on the particle view of light.
- Describe Albert Einstein's use of the Planck constant to describe light-quanta.
- Describe the photoelectric effect.
- Explain the term complementarity in the context of the wave-particle duality debate.
- Describe the relationship indicated by Ehf=.
- Describe the Thomson model of the atom.
- Describe the Rutherford model of the atom.
- Explain how Rutherford's gold foil experiment led to his "solar system" view of the atom's structure.
- Explain the quantum description of Bohr's hydrogen atom.
- Describe the idea of de Broglie waves.

- Describe the concept of a standing wave.
- Explain why it is difficult to study the atom.
- Describe the uncertainty principle.
- Recount what each of the four quantum numbers describes.
- Describe what is meant by electron spin.
- Understand facts about the history of quantum physics.

Unit 10

- Describe the structure and particles of an atom.
- Explain the nuclear interactions.
- Define nuclear stability.
- Describe the three basic forms of radioactivity.
- Explain nuclear decay, half-life, and transmutation.
- List and describe applications for radioactivity.
- Describe, compare, and contrast nuclear fission and nuclear fusion.
- Explain the term “chain reaction.”
- Recount important historical events in the development of atomic weapons.
- List the important elementary particles.
- Understand the fundamental meaning of the special theory of relativity.
- Describe an inertial frame of reference.
- Describe the fourth dimension.
- Describe the idea of equivalence.
- Understand the basic ideas of the general theory of relativity.

2nd Grade Health

Unit 1

- Know about body systems.
- Describe the five senses: sight, hearing, taste, touch, smell.
- Take good care of the body.
- Protect the senses.
- Work with doctors and dentists, who help us take care of our bodies.

Unit 2

- Understand hygiene and the importance of keeping clean.
- Know oral hygiene.
- Keep the body clean.
- Know different kinds of illnesses and what causes them.
- Avoid illnesses caused by germs.
- Know what to do when you feel sick.

Unit 3

- Have your best health for a lifetime.
- Eat a good diet.
- Be active.
- Get the right amount of rest.
- Know the purpose of vaccinations.
- Know the different kinds of nutrients.
- Get good nutrition information.
- Make good choices about food.

Unit 4

- Know the five food groups.
- Eat fruits and vegetables.
- Understand food allergies to fruits and vegetables.
- Know about protein foods, bread and grains, and dairy foods.
- Know about food allergies within each food group.

Unit 5

- Know the importance of physical activity.
- Understand why you need enough sleep and rest.
- See the importance of being balanced in all parts of life.
- Know that all activity has risk of injury.
- Show that you know what to do when injury happens.

- Show that you know how to prevent injury.

Unit 6

- Know about dangers from people and weapons.
- Know the difference between telling and tattling.
- Know how to avoid getting into bad situations.
- Practice and use refusal skills.

Unit 7

- Know about prescription drugs.
- Know about over-the-counter drugs.
- Know that alcohol, illegal drugs, and tobacco are dangerous.
- Understand what addiction is.
- Understand overdose and getting help for it.

Unit 8

- Know what emotions are.
- Understand that thoughts are connected to emotions.
- Know how to express emotions.
- Know that friendship is important to social and emotional health.
- Know traits of a good friend.
- Learn how to protect and mend friendships.

Unit 9

- Communicate with family members to strengthen relationships.
- Treat others with respect to show that you value them.
- Learn about verbal and nonverbal communication.
- Read the communication of others.

Unit 10

- Know the five basic areas of self.
- Understand steps to follow for growth in various areas of self for lifetime success.
- Learn about stressors and their effects on emotions.
- Understand that our emotions can keep us from learning.
- Learn to manage ourselves so that we can learn.

3rd Grade Art

Module 1

- Know the key art mediums.
- Understand the three things art can express.
- Understand the elements of art.

Module 2

- Learn good ways to find ideas for art.
- Learn a few key drawing practice points.
- Practice what you have learned by drawing from your interests.

Module 3

- Explore historical and contemporary artists.
- Evaluate elements of art in historical and contemporary artwork.
- Evaluate historical and contemporary work based on the elements of art.
- Create a still life painting.

Module 4

- Explore different kinds of three-dimensional art.
- Understand the purpose of artist statements.
- Identify themes through artist statements.
- Learn the basics of sculpting.
- Complete a sculpting project.
- Write an artist statement.

Module 5

- Know the difference between art and design.
- Learn the seven principles of design.
- Explore different kinds of design work.
- Learn how to perform a design evaluation.
- Evaluate a work of design.

Module 6

- Identify ideas and themes in works of art.
- Explore the three ways art can be expressive.
- Learn about oral responses.
- Explore the steps of an effective oral response.

Module 7

- Learn different kinds of digital art.
- List digital art software and what kinds of art they make.
- Explore installation art and what makes it unique.
- Learn the basics of photography.
- Explore skills for making artistic photography.

Module 8

- Explore different art and career opportunities.
- Understand art's connection to other fields of work.
- Understand the uses of an art portfolio.
- Learn tips for creating an effective art portfolio.
- Create your own art portfolio.

3rd Grade Health

Unit 1

- Examine the relationships of body systems.
- Name the most important functions of the skeletal and muscular systems.
- Name the primary functions of the circulatory and respiratory systems.
- Explore sources of health information.
- Understand the importance of finding accurate and varied health information.
- Understand the reasons for seeking help with health information and advice.
- Explore positive and negative consequences of health choices.
- Identify the benefits of decision-making about personal health.

Unit 2

- Learn about different kinds of germs.
- Explore ways in which germs are transmitted.
- List methods for stopping the spread of germs.
- Explore good hygiene habits.
- Understand the importance of personal responsibility of hygiene.
- Explain the importance of immunizations in controlling contagious diseases.
- Define the term vector and identify common vectors.
- Identify diseases caused by vectors.
- Learn when and how to check for vectors.
- Identify diseases that are not caused by germs.
- Describe ways to deal with some long-term diseases.

Unit 3

- Explore ways to assess and control thoughts and emotions.
- Discuss how the brain develops over time.
- Distinguish between positive and negative peer pressure.
- Describe the qualities of healthy and unhealthy friendships.
- Discuss how others' perspectives impact situations.
- Describe the benefits of respectful communication.
- Explore strategies for resolving conflicts.

Unit 4

- Define self-esteem.
- Identify ways self-esteem is formed.
- Identify areas for one's personal growth.
- Learn why goal setting is important.
- Explore goal-setting skills.

- Describe the importance of getting help from a parent or another trusted adult when setting goals.
- Describe outcomes of positive stress.
- Explore healthy behaviors that reduce stress.
- Describe ways to support others with different learning needs.
- Explore the importance of accepting oneself and others.

Unit 5

- Identify the six major types of nutrients.
- Classify foods by the nutrients they provide.
- Examine nutrition labels to determine whether the food contains added sugars.
- Explore different types of fat.
- Identify foods based on saturated and unsaturated fat content.

Unit 6

- Describe how food behaviors affect body systems.
- Describe how physical activity affects body systems.
- Demonstrate a healthy view of food.
- Demonstrate refusal skills.
- Identify the common food allergens listed on food packaging.

Unit 7

- Identify characteristics of a safe home.
- Explain the importance of seeking assistance in making decisions about personal safety.
- Identify characteristics of a safe school.
- Understand how governments provide a safe and healthy community.
- Know how to act when faced with danger.
- Understand that weapons are dangerous.
- Demonstrate an understanding of basic first aid.

Unit 8

- Describe healthy and unhealthy relationships.
- Explain the meaning of privacy and personal space.
- Demonstrate how to address conflicts.
- Explain how to practice refusal skills.
- Describe how to respond to bullying.
- Discuss why you need to care about safety when working on a computer or phone.
- Explain how to communicate safely and positively on the internet or cell phone.
- Describe how to respond to cyberbullying.

Unit 9

- Describe the harmful effects of substance use, such as alcohol and drugs.
- Identify proper use and misuse of over-the-counter and prescription drugs.
- Examine the problem of the misuse of drugs, including OTC and prescription drugs.
- Describe the short-term and long-term effects of drug abuse.
- Describe the short-term and long-term effects of alcohol use.
- Explain the short- and long-term effects of tobacco use.
- Describe the harm created by secondhand smoke and vaping.

Unit 10

- Describe how friends can affect a person's decision to use or not use drugs or alcohol.
- Describe the importance of reporting substance use.
- Explain why reporting substance use is not tattling.
- Recognize the signs of overdose and poisoning.
- Explain what to do in emergency situations involving drugs, alcohol, and poisons.

3rd Grade Music

Module 1

- Learn and identify different instruments in music.
- Know the difference between treble clef and bass clef.
- Listen to and determine the difference between *mezzo* piano and *mezzo* forte.

Module 2

- Understand the concept of rhythm.
- Identify rhythmic patterns and musical forms.
- Evaluate rhythm in everyday life.
- Reproduce and create rhythmic patterns.
- Identify whole, half, quarter, and sixteenth notes and rests.

Module 3

- Learn to read and write music on the grand staff.
- Learn the notes of the treble clef and bass clef.
- Learn fingering and proper technique for playing the Baroque-style soprano recorder.
- Perform different pieces of music on the recorder.

Module 4

- Learn the history of American folk music.
- Define “melody.”
- Perform a simple folk melody.
- Write a melody using the previously created rhythm.
- Correctly draw the treble clef symbol.
- Read and perform the melody created.

Module 5

- Learn what a cumulative song is.
- Create your own verse of a cumulative song.
- Learn the basic steps for clogging.
- Learn the basic parts of all dancing.

Module 6

- Learn to recognize AB and ABA form.
- Understand what an introduction is in music.
- Learn the steps to sight-reading music.
- Practice sight-reading music.

Module 7

- Define ostinato.
- Define accompaniment.
- Learn how to identify ostinato.
- Create your own accompaniment.
- Learn the easiest way to write an ostinato accompaniment.

Module 8

- Learn how to talk about music.
- Learn what to look for in a performance.
- Learn how to behave during a formal concert.
- Understand what etiquette is.

4th Grade Art

Module 1

- Know the key art mediums.
- Understand the three ways art can be expressive.
- Understand the elements of art.
- Practice drawing the elements of art.

Module 2

- Learn good ways to find ideas for art.
- Learn a few key drawing practice points.
- Practice what you have learned by drawing from your interests.

Module 3

- Explore historical and contemporary artists.
- Evaluate elements of art in historical and contemporary artwork.
- Evaluate historical and contemporary work based on the elements of art.
- Create a still life painting.

Module 4

- Explore different kinds of three-dimensional art.
- Understand the purpose of artist statements.
- Identify themes through artist statements.
- Learn the basics of sculpting.
- Complete a sculpting project.
- Write an artist statement.

Module 5

- Know the difference between art and design.
- Learn the seven principles of design.
- Explore different kinds of design work.
- Learn how to perform a design evaluation.
- Evaluate a work of design.

Module 6

- Identify ideas and themes in works of art.
- Explore the three ways art can be expressive.
- Learn about oral responses.
- Explore the steps of an effective oral response.

Module 7

- Explore the basics of fiber art.
- List different kinds of fiber.
- Understand the various fiber art techniques.
- Define installation art.
- Learn the basics of photography.
- Explore skills for making artistic photography.

Module 8

- Explore different career opportunities in art.
- Understand art's connection to other fields of work.
- Understand the uses of an art portfolio.
- Learn tips for creating an effective art portfolio.
- Create your own art portfolio.

4th Grade Health

Unit 1

- Explain why the body needs water, carbohydrates, and proteins.
- Explain why the body needs vitamins, fats, and minerals.
- Describe how sugar and cholesterol affect the body.
- Identify ways to make healthy food choices.
- Identify ways to make healthy eating choices.
- Describe ways to deal with unhealthy eating situations.
- Identify healthy foods to plan a day's meals.

Unit 2

- Identify the parts, functions, and relationships of the nervous system.
- Identify the parts, functions, and relationships of the immune system.
- Identify the parts, functions, and relationships of the digestive system.
- Identify the parts, functions, and relationships of the integumentary system.
- Diagram a body system.

Unit 3

- Identify and describe noncommunicable diseases.
- Analyze healthy strategies to maintain good hygiene.
- Identify trustworthy sources of health information.
- Describe ways that families can make wise health care decisions.
- Create a hygiene checklist that promotes good health.

Unit 4

- Explain the benefits of setting short-term and long-term goals.
- Explain how time management is vital to reaching goals.
- Identify benefits of exercise.
- Connect physical activity with the prevention of illness and disease.
- Identify strategies for maintaining a healthy heart through exercise.
- Identify strategies for maintaining healthy muscles through exercise.
- Establish health goals while creating an exercise plan.

Unit 5

- Identify basic emotions and their roles in influencing behavior.
- Contrast assertive and aggressive behaviors.
- Describe tools for practicing self-control.
- Describe the sources and types of stress including internal and external, and positive and negative.
- Identify negative stressors including trauma, loss, and grief.

- Identify symptoms of the inability to cope with stress.
- Describe ways to manage stress.
- Describe strategies for reframing negative thoughts.
- Create a plan to identify and manage personal stress.

Unit 6

- Identify physical changes that boys and girls experience during puberty.
- Describe menstruation and how it relates to reproduction.
- Explain how the brain develops during puberty.
- Describe the effect that brain development has on behavior.
- Identify ways to build self-esteem.
- Discuss how to handle constructive feedback.
- Identify ways to promote a healthy body image.
- Construct, write, or compose a creative piece about self-esteem.

Unit 7

- Identify safety practices at home.
- Identify safety practices at school and in the community.
- Demonstrate basic first aid knowledge.
- Identify the types of abuse and the consequences they cause.
- Describe ways to respond to abuse.
- Design a family emergency plan for fire and severe weather.

Unit 8

- Distinguish between medicines and drugs.
- Describe why some medicines and drugs require prescriptions.
- Identify harmful drugs.
- Describe the consequences of using harmful drugs.
- Identify ways to avoid or end drug abuse.
- Describe ways to report alcohol, tobacco, and drug abuse.
- Identify sources of poisons.
- Describe steps to take if exposed to poison.
- Create an educational poster about poison safety.

Unit 9

- Describe types of social groups.
- Identify positive and negative characteristics of social groups.
- Compare and contrast positive and negative peer pressure.
- Identify characteristics of gang activity.
- Describe dangers found online.
- Identify ways to stay safe online.
- Compare and contrast bullying with joking.
- Identify the characteristics and consequences of cyberbullying.

- Analyze sources of personal influence by creating a Venn diagram.

Unit 10

- Describe characteristics of healthy and unhealthy relationships.
- Identify strategies to deal with conflict in relationships.
- Identify ways to practice self-assertion.
- Identify ways to be a positive role model.
- Describe ways to show consideration when communicating.
- Identify cues that may reveal how others feel.
- Create a welcome brochure for a social group.

4th Grade Music

Module 1

- Learn and identify different instruments in music.
- Know the difference between treble clef and bass clef.
- Know the difference between soprano and alto.
- Listen to and determine the difference between *staccato* and *legato*.
- Listen to and determine the difference between *crescendo* and *decrescendo*.

Module 2

- Understand the concept of rhythm.
- Identify rhythmic patterns and musical forms.
- Evaluate rhythm in everyday life.
- Learn how to conduct music in 2/4, 3/4, and 4/4 timing.
- Identify timing from conducting samples.

Module 3

- Learn the names and placement of notes on the grand staff.
- Read and understand music written on the grand staff.
- Learn proper fingering for the soprano recorder.
- Learn to play written music on the soprano recorder.
- Learn the history of instruments in Texas.
- Understand how diverse Texas is.
- Perform traditional Texas music.
- Perform the Texas state song.

Module 4

- Understand the different musical forms.
- Be able to identify the sections of a musical form.
- Understand the sectional structure of rondo form.
- Understand the structure of rondo form in detail.
- Write a piece of music in rondo form.
- Perform an original piece of music written in rondo form.

Module 5

- Learn the history of Mexican-American music.
- Know how Europe has influenced Mexican-American music.
- Learn about different dances in Texas.
- Learn which cultures have brought different dances to Texas.

Module 6

- Learn the different instruments common to the Mexican conjunto.
- Learn more details about how these instruments are made and are played.
- Learn what an accompaniment is.
- Learn how to identify the accompaniment.

Module 7

- Learn about automatic instruments.
- Learn the history leading up to the invention of electronic instruments.
- Understand why automatic instruments were used.
- Learn more about the history of electronic instruments and recording devices.

Module 8

- Learn how to write a review.
- Understand how active listening works.
- Write a review.
- Learn proper etiquette for attending a performance.
- Understand how a formal performance is structured.

5th Grade Art

Module 1

- Know the key art mediums.
- Understand the three ways art can be expressive.
- Understand the elements of art.
- Practice drawing the elements of art.

Module 2

- Learn good ways to find ideas for art.
- Learn a few key drawing practice points.
- Practice what you have learned by drawing from your interests.

Module 3

- Explore historical and contemporary artists.
- Evaluate elements of art in historical and contemporary artwork.
- Explore and practice different painting skills.
- Create an original painting based on observation and experience.

Module 4

- Explore different kinds of three-dimensional art.
- Understand the purpose of artist statements.
- Identify themes through artist statements.
- Learn the basics of sculpting.
- Complete a sculpting project.
- Write an artist statement.

Module 5

- Know the difference between art and design.
- Learn the seven principles of design.
- Explore different kinds of design work.
- Learn how to perform a design evaluation.
- Evaluate a work of design.

Module 6

- Identify ideas and themes in works of art.
- Explore the three ways art can be expressive.
- Learn about oral responses.
- Explore the steps of an effective oral response.

Module 7

- Explore the basics of fiber art.
- List different kinds of fiber.
- Understand the various fiber art techniques.
- Define installation art.
- Learn the basics of photography.
- Explore skills for making artistic photography.

Module 8

- Explore different art and career opportunities.
- Understand art's connection to other fields of work.
- Understand the uses of an art portfolio.
- Learn tips for creating an effective art portfolio.
- Create your own art portfolio.

5th Grade Health

Unit 1

- Identify health decision-making skills.
- Learn skills for identifying health information facts versus myths.
- Explain the relationships between major body systems.
- Examine the endocrine and urinary systems.
- List methods for stopping the spread of germs.
- Explore good hygiene habits.
- Understand the importance of personal responsibility for hygiene.
- Identify common symptoms and treatments for illnesses caused by vectors.

Unit 2

- Identify ways to maintain healthy relationships.
- Explore positive conflict resolution strategies.
- Analyze how thoughts and emotions influence behaviors.
- Identify good communication skills, including respecting different perspectives.
- Identify ways to build self-esteem for yourself and others.
- Identify the benefits of setting and implementing goals.
- List skills for setting and accomplishing healthy goals.

Unit 3

- Identify important health factors.
- Discuss the impact of brain development on health.
- Explore healthy and unhealthy methods for managing long-term illnesses.
- Identify ways to reduce the impact of trauma, grief, and stress.
- Compare and contrast the differences between positive and negative stress.
- Identify eating disorders and the importance of seeking help from a trusted adult.
- Describe situations that call for professional mental health services.

Unit 4

- Explore the six major nutrients found in food.
- Identify foods that commonly contain some or many of the six major nutrients.
- Examine food labels and menus for nutritional content, calories, and serving sizes.
- Identify sugar content in common foods.
- Describe the connection between diet and certain kinds of disease.
- Identify habits that can help reduce the chances of developing disease.
- Identify the physical, mental, and social benefits of fitness.
- Analyze ways to maintain healthy fitness throughout one's lifespan.

Unit 5

- Learn strategies for avoiding violence and gangs.
- Identity safe havens in your community.
- Examine the characteristics of gang behavior.
- Identify the value of healthy communities.
- Identify common internet risks for children.
- Explore boundaries for online communication.
- Explain the benefits of identity protection.
- Analyze the consequences of cyberbullying and inappropriate online communication.
- Explore proper bullying reporting.

Unit 6

- Compare and contrast healthy and unhealthy family behaviors.
- Identify forms of family violence.
- Identify the effects of abuse and neglect.
- Explain the importance of reporting abuse and neglect.
- Identify safety and first aid skills.

Unit 7

- Identify the dangers of misusing over-the-counter and prescription drugs.
- Understand each part of over-the-counter and prescription drug labels.
- List the negative effects of alcohol, tobacco, and other drugs.
- Identify short- and long-term effects of drugs on body systems.
- Identify positive and negative peer influence.
- Analyze ways to use positive peer influence to help family, friends, and peers.
- Describe the signs of poisoning and overdose.
- Identify the importance of seeking help and reporting unsafe situations related to alcohol, tobacco, and other drugs.

Unit 8

- Examine the legal consequences of using alcohol, tobacco, and other drugs.
- Identify healthy drug alternatives.
- Explore school or community organizations as healthy drug alternatives.
- Identify effective refusal skills.
- Explore examples of effective refusal skill statements.
- Identify a variety of scenarios requiring effective refusal skills.
- Apply refusal skills to different unsafe scenarios.

Unit 9

- Distinguish between friendship, dating, and marriage.
- Identify characteristics of healthy relationships.

- Identify the importance of setting boundaries on physical intimacy.
- Explore steps for setting physical boundaries.
- Identify kinds of unhealthy situations that require saying “no.”
- Learn refusal skills when experiencing unwanted touch or violated personal boundaries.
- Identify different types of sexual abuse.
- Identify ways of reporting sexual abuse involving self or others.

Unit 10

- Identify physical, social, and emotional changes that happen during puberty.
- Describe the role of hormones in causing physical changes during puberty.
- Identify the parts of the reproductive system.
- Describe the process of the menstrual cycle.
- Analyze and define the process of fertilization.
- Analyze actions for healthy fetal development.

5th Grade Music

Module 1

- Learn and identify the parts of a choir.
- Know the difference between treble clef and bass clef.
- Know the difference between soprano, alto, tenor, and bass.
- Read notes written on ledger lines.
- Understand the basic concept of what harmony is.
- Learn the functions of sharps and flats in music.
- Read written music.
- Know the pattern for ascending major scales.

Module 2

- Learn the major keys in music.
- Be able to read and perform written music.
- Understand the function of the natural sign.
- Understand what a musical form is.
- Understand and identify ABA, rondo, and theme and variation musical forms.
- Understand and be able to identify different types of variations.

Module 3

- Learn to read and play music with syncopation.
- Learn how to use, read, and play the rhythm dot.
- Learn to read time signatures.
- Understand the difference between simple and compound meter.
- Understand the difference between simple and compound meter.
- Recognize *accelerando* and *ritardando*.
- Learn the features of a cappella.
- Understand the different possibilities for members of an a cappella group.

Module 4

- Understand how war influences music.
- Learn different songs written during wartime.
- Perform a partner song.
- Understand the use and importance of sign language.
- Know the history behind “The Star-Spangled Banner.”
- Know the lyrics to “The Star-Spangled Banner.”
- Be able to recognize the melody of “The Star-Spangled Banner.”

Module 5

- Learn about Native-American history.
- Learn some of the different kinds of Native-American music.
- Understand why intertribal music exists.
- Learn more about Native-American culture.
- Practice proper etiquette when attending an event for a different culture.
- Understand reasons behind personal preference for music works and styles.

Module 6

- Learn more about the music history of African Americans.
- Learn how slavery has changed music.
- Learn which instruments were brought to America by African Americans.
- Learn the difference between jazz, blues, and rag.
- Learn the history of African-American jazz.
- Learn about older recording techniques.

Module 7

- Learn more about the music history of European immigrants.
- Understand how European immigrants have influenced music.
- Learn features of the music of European immigrants.
- Learn how to compare and contrast musical performances.
- Learn critical listening skills.
- Understand the reasoning behind personal preference in music.

Module 8

- Learn how professional singers practice and take care of their voices.
- Learn about different styles of singing.
- Learn more about how the voice works.
- Learn the proper attire for performing.
- Learn rules of behavior for a musical performance.
- Understand the different requirements for different levels of formality.

6th Grade Health

Unit 1

- Compare short-term and long-term effects of personal health care choices.
- Explain the role of preventative health measures, immunizations, and treatments in disease prevention.
- Explore criteria for evaluating health information.
- Describe ways to demonstrate decision-making skills based on health information.
- Explore different kinds of long-term illnesses.
- List and describe actions that can be taken to help treat certain long-term diseases.
- Recognize the signs, symptoms, and treatments of common vector-borne illnesses.

Unit 2

- Explore conflict resolution skills.
- Learn the difference between positive and negative peer influence.
- Explore communication skills for important issues.
- Identify the importance of understanding different perspectives.
- Identify common factors of self-esteem.
- Explore long-term benefits of setting health goals.
- Make an in-depth exploration of critical thinking skills.

Unit 3

- Identify different factors of human development.
- Relate factors of human development to individual, family, and community health.
- Explore strategies for managing learning conditions.
- List common mental conditions including eating disorders.
- Describe positive and negative strategies for handling mental conditions.
- Explore suicide risk and protective factors.
- Identify various suicide prevention resources.

Unit 4

- Explore healthy and unhealthy dietary practices.
- Evaluate the health benefits of different kinds of nutrients.
- Explain the importance of a personal dietary plan.
- Analyze how physical activity helps prevent disease.
- List CDC guidelines for daily physical activity throughout the lifetime.
- Explore the benefits of physical activity on mental, physical, and social health.
- Explore the role of media and technology on community and individual health.
- Explore internal and external health factors.
- Identify how health factors impact healthy eating and physical activity.

- Analyze the nutritional differences between fresh and highly processed foods.

Unit 5

- Explore sources of and strategies for avoiding unsafe situations.
- List dangers associated with weapons.
- Identify common safe havens.
- Identify different types of unhealthy digital communication.
- Analyze the effects of unhealthy digital communication.
- Discuss strategies for identity protection.
- Identify the various ways abuse can impact someone who is abused.
- Analyze the impact bullying has on everyone involved.
- Identify healthy and effective ways of responding to bullying.
- Identify general first aid procedures.

Unit 6

- Identify forms of misuse of prescription and over-the-counter drugs.
- Explore short- and long-term health consequences of drug misuse.
- Describe the legal consequences of substance abuse and misuse.
- Identify signs and symptoms of substance abuse.
- Identify proper storage and disposal of prescription and OTC drugs.
- Identify ways to report a suspected abuse of drugs to a parent, school administrator, teacher, or another trusted adult.
- Identify examples of when, from whom, where, and how to get help related to unsafe situations caused by substance misuse.

Unit 7

- Identify the effects of peer influence on decision-making.
- Differentiate between positive and negative relationships.
- Identify social and physical influences on substance use.
- Identify how substances play a role in creating unsafe situations.
- Identify healthy alternatives to substance use.
- Analyze and describe strategies for avoiding substances.
- Identify refusal skills that help prevent substance use.
- Identify and describe strategies for avoiding substances.

Unit 8

- Distinguish between different kinds of healthy relationships.
- Describe how friendships are a good foundation for healthy dating.
- Identify characteristics of healthy dating and romantic relationships.
- Identify characteristics of unhealthy relationships.
- Describe how marriages can contribute to healthy families and communities.

- Identify how dignity and respect are present in healthy dating and romantic relationships.
- Explain the importance of clearly communicating and respecting personal boundaries.
- Identify communication and refusal skills.
- Explain the importance of using refusal skills to maintain physical boundaries.

Unit 9

- Identify common types of abuse.
- List effective ways of reporting abuse.
- Identify the social and emotional impacts of sexual abuse.
- Identify the role of the endocrine system.
- Analyze the role of hormones in growth and development.
- Describe the changes to males and females during puberty.
- Understand the process of the menstrual cycle.
- Describe the cellular process of fertilization in human reproduction.
- Explain the significant milestones of fetal development.

Unit 10

- Identify different laws and penalties for sexual abuse.
- List the physical and emotional risks of sexual activity.
- Identify early pregnancy as a possible outcome of sexual activity.
- Identify why abstinence is effective in preventing sexual diseases.
- List the many benefits of abstinence.
- Explain why abstinence is the preferred choice for unmarried persons of school age.
- Identify sources of support for sexual health.
- Analyze ways to seek support from parents, other trusted adults, and peers.

Middle School Art

Module 1

- Learn the elements of art and apply them in an art evaluation.
- Understand the components of creating still life artwork.
- Practice drawing a still life.

Module 2

- Understand different forms of artistic expression.
- Identify examples of important and historical work and what they represent.
- Explore and practice different painting skills.
- Create an original painting based on observation and experience.

Module 3

- Explore how to give responses and critiques to works of art.
- Analyze works of art and practice art critiques.
- Explore three-dimensional artwork and mediums utilized.
- Create an original three-dimensional work of art.

Module 4

- Learn how historical and political events impact artwork.
- Understand the relationship between society and art.
- Learn the ways art is commonly expressed in communities.
- Document community art while practicing simple photography skills.

Module 5

- Know the difference between art and design.
- Learn the seven principles of design.
- Explore different kinds of design work.
- Learn how to perform a design evaluation.
- Evaluate a work of design.

Module 6

- Explore the basics of fiber art.
- Understand the differences between natural and synthetic fiber.
- List various fiber art techniques.
- Understand the basics of printmaking.
- Practice printmaking and mixed-media art creation.

Module 7

- List common themes found in art.
- Explore examples of art that convey universal themes.
- Explore the importance of exhibition etiquette.
- List different kinds of exhibition etiquette.
- Practice exhibition etiquette at a local gallery or museum.

Module 8

- Explore different art and career opportunities.
- Understand art's connection other fields of work.
- Understand the uses of an art portfolio.
- Learn tips for creating an effective art portfolio.
- Create your own art portfolio.

Middle School Music

Module 1

- Learn the sections and standard layout of the orchestra.
- Learn the different instruments of the orchestra.
- Listen to examples of orchestrated works.
- Learn about careers in music.
- Learn the different sections of the orchestra.
- Listen to examples of different instruments working together.
- Learn about careers in music performance.

Module 2

- Understand the structures of the human body and the mechanics of singing.
- Know the different resonances and registers for singing.
- Understand what a break is.
- Learn the different styles of singing.
- Learn proper care techniques for the human voice.
- Choose the instrument to be performed for the school year.
- Research the instrument to be practiced and performed during the school year.
- Produce a correct sound with the instrument.

Module 3

- Learn the basics of reading music.
- Understand the different rhythmic elements of music.
- Read music written on the staff.
- Learn the names of the notes in solfège.
- Learn the history of solfège.
- Learn the hand signs for solfège.
- Correctly interpret a song by showing the hand signs for each note.
- Play or sing notes correctly with solfège.

Module 4

- Learn the different tempos of music.
- Recognize transitions in tempo.
- Apply the terms learned to modern examples.
- Learn different forms of articulation and how to perform them.
- Learn the basic levels of dynamics and how to perform them.
- Understand how transitions in dynamics work.
- Understand how repeat signs work and how to perform them.

Module 5

- Understand what a musical form is.
- Understand and identify ABA, rondo, and theme and variation musical forms.
- Understand and be able to identify different types of variations.
- Learn when and how a repeat sign is used.
- Identify where a repeat sign is in a piece.
- Learn the parts of sonata form.
- Understand how sonata form is structured.
- Introduce variations on sonata form.

Module 6

- Learn the basics of genre.
- Understand that not all musicians agree on genre.
- Be able to identify different genres based on the criteria given.
- Learn the difference between musical genre and musical style.
- Become familiar with different styles of Western music.
- Understand what a cover of a song is.
- Determine whether a cover is the same or a different style from the original.
- Understand the difference between an amateur and a professional musician.

Module 7

- Learn the different Western art vocal genres.
- Understand the historical ties to different genres.
- Learn which techniques and styles are associated with which genres.
- Learn the history of the choir.
- Learn different choral arrangements.
- Make critical thinking decisions regarding performance and preferences.

Module 8

- Learn more about different musical styles, genres, and instruments from different cultures.
- Understand the mystical history of music in Asia.
- Learn what to wear to a classical performance.
- Learn when to arrive to a classical performance.
- Understand how and when to respond to a classical performance.

Middle School Theater

Module 1

- Understand the primary elements of theater.
- Know what components make up the primary elements of theater, such as characters and setting.
- Understand tools for developing character.
- Explore sensory and emotional recall.
- Practice characterization through a mime exercise.

Module 2

- Understand the mechanisms of the voice system.
- Learn of safe use of voice and body.
- Understand well-developed characters.
- Create and imagine your own character.

Module 3

- Understand the process of designing theater sets.
- Know the role of the scenic designer.
- Create a set environment from your imagination.
- Explore the elements of theater production.
- Create an imaginative character from personal experience.

Module 4

- Understand the elements of dramatic structure.
- Plan a dramatization game.
- Understand basic production technologies.
- Explore different theater special effects.

Module 5

- Understand the importance of theater terms.
- Identify different parts of stage anatomy.
- Learn important actor terms.
- Learn the importance of proper audience behavior.
- List audience etiquette items that should be followed while attending a performance.

Module 6

- Define what production elements are.
- Identify the elements of a theater production.
- Compare the elements of film, television, and the internet to those of theater.
- Understand the importance of observation.
- Explore the elements of a production observation.
- Conduct an observation on a live performance or online performance.

Module 7

- Explore influences of storytelling and media on society.
- List the four forms of impact storytelling can have.
- Understand the basics and history of improv.
- Explore techniques for becoming a skilled improviser.
- Practice improvisation skills by portraying imaginative characters drawn from literature and history.

Module 8

- Understand that theater is also an industry.
- Explore different occupations found in theater.
- Consider which theater roles you might enjoy doing or exploring.
- Learn the various elements of a stage play.
- Practice writing your own script by creating environments, characters, and actions.
- Explore dramatization through collaboration.

7th and 8th College and Career Exploration

Unit 1

- Describe the difference between a job and a career.
- Identify 14 career clusters.
- Explain the meaning and importance of “hard” skills.
- Explain the meaning and importance of “soft” skills.
- Understand the career clusters.
- Explore 14 career clusters: Agriculture, Food, and Natural Resources
    - Architecture and Construction
    - Arts, Audio/Video Technology, and Communications
    - Business, Marketing, and Finance
    - Education and Training
    - Energy
    - Health Science
    - Hospitality and Tourism
    - Human Services
    - Information Technology
    - Law and Public Service
    - Manufacturing
    - Science, Technology, Engineering, and Mathematics
    - Transportation, Distribution, and Logistics
- Understand the steps involved in making a choice of career.
- Understand the factors of analyzing the labor market.
- Explore two government-sponsored career information websites.
- Learn the use of an industry profile.

Unit 2

- Know that identifying personal traits can lead to a successful career choice.
- Take an assessment that will result in three occupational suggestions.
- Understand the concept of a career pathway.
- Describe what is included in a career pathway.
- Review example career pathways.
- Consider aspects of attending high school.
- Plan your high school career.
- Understand the purpose of and the need for a graduation plan.
- Know the importance of developing a wide variety of interests and participating in a broad range of activities in high school.
- Explain the purpose of Career and Technical Student Organizations (CTSOs).
- Describe various CTSOs.
- Research a CTSO in a chosen career field.
- Understand the importance of education and training requirements as factors in determining interest in a career.
- Use career websites to find information regarding the education and training requirements for various careers.
- Understand the meaning of certification.

- Find certification information for specific occupations.
- Explain the difference between certification and licensing.
- Research postsecondary training and educational opportunities.
- Understand your choices in postsecondary educational opportunities.
- Understand what preparations need to be made for postsecondary education.
- Explore the skills needed for postsecondary experiences.
- Research college options, including colleges and universities in your area.
- Write a plan for starting one's career after the completion of high school and any postsecondary education.

Unit 3

- Understand and commit to high academic performance in middle school and high school.
- Explain the importance of basic math skills as applied to the workplace.
- Describe the use of a calculator and spreadsheet.
- Explain principles of effective communication.
- Describe the use of computer applications in communication.
- Define strong personal qualities.
- Demonstrate the ability to be a team member.
- Learn the importance of being a leader.
- Understand the importance of character.
- Evaluate character traits in your own life.
- Identify technical skills related to careers or positions that you have identified as interesting.
- Know the difference between hard skills and soft skills.
- Understand the importance of time management.
- Understand principles of goal setting.
- Understand the importance of the ability to function as part of a team.
- Consider ways to become a valuable team member.
- Recount ways in which teams solve problems.
- Understand the importance of and basis for interpersonal relations.
- Describe qualities for gaining trust, influence, and leadership.

Unit 4

- Understand the concept of entry-level employment.
- Research an entry-level occupation.
- Explore apprenticeships, internships, and volunteer opportunities.
- Create an employment portfolio.
- Create a personal information sheet.
- Write a résumé.
- Collect other documents required for employment.
- Identify the steps of an effective job search.
- Understand how to complete a job application.
- Complete a sample job application.
- Explain the importance of character references.
- Find and select prospective references.

- Write a sample thank-you letter to someone who has given you a reference letter.
- Describe how to prepare yourself for a job interview.
- Use resources to compare salaries of at least three careers of interest.
- Prepare a personal budget reflecting your desired lifestyle.

Module 5

- Understand the impact of effective college and career planning.
- Explore college options and discuss including college in the flight plan.
- Understand that the military may be an option for training or for a career.
- Investigate and describe various ways to pay for postsecondary training.
- Research and evaluate emerging occupations in your interest areas.
- Analyze labor market trends related to a career of interest.
- Understand the purpose of a professional association.
- Identify professional associations affiliated with a particular career pathway.
- Define the concept of entrepreneurship.
- Identify entrepreneurial opportunities within a field of personal interest.

Astronomy

Unit 1

- Become familiar with the views the ancients had about astronomy.
- Be able to appreciate what uses ancient people made of astronomy.
- Become familiar with Nicolaus Copernicus' contribution to correct understanding of astronomy.
- Learn why Johannes Kepler was the first modern astronomer.
- Describe Kepler's three laws of planetary motion.
- Become familiar with the contributions and insights of Galileo Galilei.
- Appreciate the value of experimentation in science.
- Appreciate contributions Galileo Galilei made to scientific fields outside astronomy, but which found application within that field eventually.
- Gain understanding of the quality of matter known as inertia.
- Gain understanding of Newton's three laws of motion.
- Understand the concepts of momentum, velocity, mass, force, and magnitude.
- Define angular momentum and appreciate its importance to astronomy.
- Define the difference between revolution and rotation.
- Become familiar with the phenomenon of paired forces.
- Appreciate efforts to invent tools and methods for working in space.
- Be introduced to universal gravitation.
- Become familiar with centripetal and centrifugal forces as they apply to astronomy.
- Know the law of universal gravitation.
- Appreciate the importance of our sun's gravitational effect as it operates in our solar system.
- Recognize our debt to great contributions of those who came before us.

Unit 2

- Become acquainted with light's two-fold nature.
- Relate electromagnetic waves to light.
- Know how a prism produces the visible spectrum.
- Be able to define refraction and state how it produces a rainbow.
- Describe the difference between refraction and diffraction.
- Become familiar with what a refracting telescope is and how it operates.
- Become familiar with what a reflecting telescope is and how it operates.
- Learn about continual improvements in telescope design and operation.
- Become familiar with detectors of invisible electromagnetic radiation.
- Know what interferometry is.
- Become familiar with major discoveries in all parts of the electromagnetic spectrum.

Unit 3

- Learn the importance of spectroscopy.
- Identify the major factors of spectroscopy.
- Appreciate the value of spectroscopy to astronomy as an investigative tool.
- Become familiar with discoveries revealing causes of outward solar phenomena.
- Learn about some famous solar scientists.
- Appreciate appearances and activities of some solar phenomena.
- Understand something of each layer of the Sun.
- Comprehend something of the solar core's operation.
- Appreciate the processes that send heat and light to us.

Unit 4

- Define what a planet is.
- Learn the major features and processes of Mercury.
- Learn the major features and processes of Venus.
- Speculate whether the features of Venus could ever become true of Earth.
- Learn the major features and processes of Mars.

Unit 5

- Learn about Earth's movements.
- Appreciate the value of Earth's magnetic field.
- Gain knowledge of Earth's atmospheric layers and their functions.
- State the reason for Earth's seasonal changes.
- Know something about the history of our calendar.
- Know the characteristics of the Moon's most visible geographic features.
- Learn about lunar movements and phases.
- Appreciate the Moon's influence on tides.
- Know the difference between the two kinds of eclipses.
- Define meteoritics.
- Learn about the origin of meteors.
- Appreciate a current understanding of the mechanism of meteoric impact.
- Gain knowledge of meteoric types.

Unit 6

- Become familiar with the characteristics of a minor planet.
- Know the three major categories for minor planets.
- Learn about Kirkwood Gaps and resonances.
- Be able to describe a Lagrangian point.
- Appreciate the special characteristics of comets in general.
- Learn about Halley's Comet specifically as a means to learn about comets in general.
- Become familiar with unique characteristics of Jupiter as a planet.
- Be able to state what a gas-giant planet is.

- Appreciate the importance of Jupiter's atmosphere to understanding this planet as a whole.
- State individual, unique characteristics for Jupiter's four major moons.
- Learn about people and events prominent in our understanding of Saturn and its moons.
- Appreciate how technology has enabled our understanding of far-off places to be expanded.
- State how resonance works in Saturn's ring system.
- Gain appreciation of Titan as a place.
- Become familiar with the objects and processes of the outer Solar System.
- Understand how nature can be surprising.
- Become acquainted with some of the frontiers of knowledge about the Solar System.

Unit 7

- Identify characteristics of stars by their spectra.
- Use the distance units light year and parsec correctly.
- Become acquainted with the form, purpose, nomenclature, and organization of the Hertzsprung-Russell Diagram.
- Appreciate three fusion reaction processes as power sources for stars.
- Become familiar with how stars leave the main sequence.
- Describe the fate of sun-class stars.
- Describe the fate of red dwarfs and blue stars.
- Appreciate white dwarfs as the last stage of stellar existence.
- Describe several types of pulsating stars.
- State why brown dwarfs are not stars.
- Become acquainted with multiple-star systems.

Unit 8

- Learn how constellations are named.
- Know why constellations are useful to us.
- Locate significant stars like the North Star.
- Be able to establish a celestial meridian anywhere.
- Become familiar with star patterns for featured constellations.
- Know some of the astronomical features associated with selected constellations.
- Define the basis of latitude and longitude measurements on the celestial sphere.
- Appreciate the importance of the Prime Meridian.
- Gain knowledge of special descriptive terminology.

Unit 9

- Appreciate that we occupy no privileged position in the universe.
- Describe the physical shape and organization of our galaxy.
- Learn how radio astronomy is a major means for exploring our galaxy.

- Appreciate the role of dust as an investigative tool.
- Learn to classify galaxies.
- Recognize and describe each general type of galaxy.
- Gain insight into our galaxy's location in its galactic group.
- Outline the grand scheme of our universe.
- Understand the differences between ordinary and degenerate matter.
- Know the types of degenerate matter.
- Define singularity, event horizon, and accretion disk.
- State the differences between quasars, blazers, radio, and Seyfert galaxies.
- Know the basic structure of an active galaxy.
- Define synchrotron radiation.

Unit 10

- Know and apply steps in the scientific method.
- Appreciate the need for accuracy when collecting scientific data.
- Learn the limits of scientific investigation.
- Understand some of the concepts of special relativity.
- Know that relativity extends our scientific knowledge.
- Conceive our world as a relativistic continuum.
- Apply concepts of general relativity to astronomy.
- Appreciate the contribution of general relativity to the correct understanding of our universe.
- State how we live in a four-dimensional space-time continuum.
- Describe the Big Bang theory.
- Know the origins of all atoms, matter, and larger structures in our universe.
- Learn the outlines of string theory.
- Become familiar with operational features of binoculars.
- Know the relation between magnification and field of view.
- Learn about equipment that enhances telescope performance.
- Perform angular measurements in the field.

Aquatic Science

Unit 1

- Define aquatic science and understand the expectations of the course.
- Describe why studying water is important.
- Research and describe major historical events in aquatic science.
- Define and describe the different phases of water.
- Distinguish between freshwater, brackish water, saltwater, and brine.
- Understand the concept of systems thinking and its importance when studying water.
- Describe earth's four main systems and understand how water interacts with each system.
- Describe the water cycle.
- Define evaporation, condensation, and precipitation.
- Distinguish between the different types of precipitation.
- Apply the scientific method to aquatic science.
- Compare and contrast hypotheses, theories, and scientific laws.
- Know the difference between an independent and dependent variable, and apply these terms to aquatic science.
- Learn how to design a great experiment.

Unit 2

- Understand the goals and requirements of the course project.
- Understand and apply the International System of Units (SI) to solve problems.
- Use dimensional analysis to convert data to different units of measurement.
- Convert numbers to scientific notation.
- Think critically about scientific research.
- Be able to distinguish between fact, fiction, and promotion research.
- Distinguish between different types of data.
- Know how to collect and keep data safe.
- Apply different methods of analyzing data, including finding the mean and median of a data set.
- Use scatter plots to determine the correlation between two variables.
- Understand the importance of maps.
- Use latitude and longitude to find a location.
- Know key map terms, including scale, compass rose, and legend.
- Describe how the GPS and GIS work.
- Understand and define trilateration.
- Understand how microscopes, water quality testing kits, and buoys can be used to collect water data.

Unit 3

- Define and distinguish between atoms, elements, and molecules.
- Understand how hydrogen and oxygen atoms chemically bond to each other.
- Explain how hydrogen bonding between water molecules contributes to many of water's unique properties.
- Describe why water's unique properties help life exist on earth.
- Understand the structure of water in each of the phases.
- Describe how water behaves at different temperatures.
- Describe the structure of ice and understand why it is less dense than liquid water.
- Explain why ships can float even though the materials they are made out of are denser than water.
- Understand how surface tension, buoyancy, and hydrostatic pressure work and explain how hydrogen bonding impacts these fluid dynamics.
- Describe the benefits of exercising in the water in terms of fluid dynamics.
- Explain how gases dissolve in the water through diffusion.
- Understand how temperature, altitude, respiration, and bacteria impact the amount of dissolved oxygen in water.
- Define synergy and describe the synergistic relationship between different water quality parameters, especially in regards to pH levels.
- Distinguish between total suspended solids and turbidity.

Unit 4

- Understand why oceans are important.
- Describe different theories about how the oceans were formed.
- Identify the different oceanic zones.
- Define and differentiate between gulfs, seas, and oceans.
- Compare and contrast the world's five oceans.
- Describe how the plate tectonic theory came about.
- Understand how plate tectonics works.
- Define and differentiate between the different plate boundaries.
- Identify different landforms on the ocean floor.
- Describe how hot spots, hydrothermal vents, and trenches work.
- Describe the different types of energy in the ocean, including kinetic and potential energy, as well as the different forms of energy, including heat, light, and sound energy.
- Understand the structure of waves and how wind waves work.
- Differentiate between sea waves, swells, tsunamis, and rogue waves.
- Define and describe different types of surface currents and deep water currents.
- Understand that coastal currents are caused by local winds and surface ocean currents are caused by global wind patterns.
- Compare and contrast longshore, rip, and upwelling currents.
- Describe how the Global Conveyor Belt works and its importance in transporting nutrients around the earth.
- Understand how tides work and describe the different types of tides.

- Explain the importance of tides to humans and other organisms.

Unit 5

- Differentiate between climate and weather.
- Understand how the atmosphere interacts with the hydrosphere to create weather.
- Define atmospheric pressure and understand how differences in pressure lead to weather patterns.
- Explain how low-pressure systems form.
- Classify clouds according to name and appearance.
- Describe how the heat capacity of the ocean regulates both weather and climates, especially in coastal areas.
- Understand that the sun helps drive all the weather patterns that occur on earth.
- Understand how solar radiation and terrestrial radiation heat up the earth.
- Describe how the process of convection creates wind and low-pressure areas.
- Explain how the tilt of the earth affects unequal heating from the sun, causing seasons.
- Understand how different global wind patterns form and how air masses rise.
- Understand how the role the ocean plays in absorbing carbon dioxide impacts global temperatures.
- Describe what might happen if the ocean's ability to absorb carbon dioxide is weakened.
- Describe how monsoons form, what their effects are, and what happens when a weak monsoon season occurs.
- Explain how hurricanes form and know how they are classified.
- Understand how the Coriolis Effect relates to the path and direction in which a hurricane rotates.
- Describe how El Niño events occur and explain how they are different from La Niña events.
- Understand the consequences of El Niño events, including economic consequences.

Unit 6

- Define ecosystem and know what an ecosystem needs in order to survive.
- Explain the difference between biotic and abiotic factors.
- Understand the classification system of biotic factors in an ecosystem.
- Distinguish between freshwater and marine ecosystems.
- Describe the difference between producers, consumers, and decomposers.
- Understand how food chains, food webs, and pyramids are used to represent energy flow and levels in an ecosystem.
- Further classify aquatic organisms as plankton, nekton, benthos, or decomposers.
- Compare and contrast the types of relationships that occur between species in an ecosystem.
- Understand how the carbon, nitrogen, and phosphorous cycles work.

- Describe the role cyanobacteria play in the nitrogen cycle in aquatic ecosystems.
- Explain and analyze the problems associated with too much nitrogen and phosphorous entering an aquatic ecosystem.
- Describe how abiotic factors, such as temperature and salinity, affect an entire species and the ecosystem in which it lives.
- Understand how osmoregulation protects aquatic life from the salinity of water.
- Differentiate between the different aquatic life zones, including type of life that can be found in each zone.
- Understand the traditional classification levels of life and identify organisms based on their classification.

Unit 7

- Understand the significance of Carl Linnaeus' taxonomy system.
- Identify and describe species using dichotomous keys.
- Define plankton and differentiate between phytoplankton and zooplankton.
- Understand the importance of cyanobacteria.
- Describe the characteristics of various types of algae.
- Differentiate between the three different classes of aquatic plants.
- Identify the types of aquatic organisms that are classified as nekton.
- Understand the role nekton play in aquatic ecosystems and how they impact the food chain.
- Describe the characteristics among the different classes of fish.
- Describe the special adaptations of aquatic invertebrates, amphibians, reptiles, and mammals.
- Identify species of animals within the categories of invertebrates, amphibians, reptiles, and mammals.
- Define benthos and differentiate the types of benthos by size.
- Describe the adaptations of various benthic organisms.
- Understand the economic importance of benthic organisms.
- Describe the adaptations that aquatic birds have in order to survive life in the water.

Unit 8

- Distinguish between the major types of aquatic ecosystems.
- Understand why classifying ecosystems can be difficult.
- Explain why the open ocean is not a very productive ecosystem.
- Distinguish between the different zones of open ocean ecosystems.
- Compare and contrast polar ecosystems to open ocean ecosystems, as well as to each other.
- Identify how polar ecosystems receive the nutrients needed to function properly.
- Distinguish between different coastal ecosystems, include coral reefs and sand, shingle, and rocky shores.
- Identify different adaptations that species living in tidal zones may possess.
- Understand the importance of coastal ecosystems and the threat these ecosystems face.

- Describe the impact of human activity on coastal ecosystems.
- Understand the importance of tide pools, mud flats, and salt marshes, and explain why they are important.
- Define and distinguish between different estuarine ecosystems.
- Understand the importance of estuarine ecosystems in cycling nutrients, trapping sediments, and preventing erosion.
- Describe the various adaptations organisms possess in order to live in different estuarine ecosystems.
- Understand and describe the problems facing the survival of estuaries and coastal wetlands, and offer solutions to those problems.
- Identify the importance of mangrove swamps, and the special adaptations of the plants that live there.

Unit 9

- Define watersheds and describe why they are important.
- Describe the issues that face watersheds and how they are related to human activity.
- Understand the process of biomagnification.
- Identify how sewage treatment works in most towns and cities.
- Understand the importance of groundwater.
- Distinguish between confined and unconfined aquifers.
- Define lakes and distinguish between eutrophic and oligotrophic lakes.
- Understand the different ways lakes can form.
- Describe the process of stratification and lake turnover, and understand their importance.
- Identify the different lake life zones and their importance to a lake ecosystem.
- Understand how bottom-up and top-down processes occur to regulate lake energy levels.
- Distinguish between streams, rivers, and creeks.
- Understand the processes that shape rivers over time.
- Describe riparian zones and explain why they are important ecosystems.
- Identify the importance of rivers, riparian zones, and freshwater wetlands.
- Compare and contrast different types of freshwater wetlands.

Unit 10

- Understand the current state of the earth’s water.
- Identify problems regarding water scarcity and sanitation.
- Describe the impact of human population growth on water quality and quantity.
- Compare and contrast predictions and projections.
- Know the difference between nonpoint- and point-source pollution.
- Identify how wastewater and other pollutants impact water health.
- Define cultural eutrophication and describe its impact on aquatic ecosystems.
- Understand how dams provide hydroelectricity and describe the pros and cons of using hydroelectricity.

- Identify the different types of fisheries and understand how fisheries are regulated.
- Describe fish farms and their effect on the environment.
- Explain the importance of dredging in water transportation.
- Describe the causes, effects, and possible solutions of oil spills.
- Understand how water is used in agriculture and describe solutions for improving water use in agriculture.
- Understand how water is used in industry and describe solutions for improving water use in industry.
- Identify the major U.S. water regulations and understand how they impact water quality.
- Summarize the difficulties developing nations face in implementing water regulations.
- Describe solutions for water pollution and water scarcity.
- Understand how desalination methods work, including the benefits and problems associated with them.
- Know how to conserve water.

Environmental Systems

Unit 1

- Define environmental systems and understand the breadth and limitations of the course.
- Compare how the agricultural revolution, the industrial revolution, and the information/ globalization revolutions inform the history of environmental systems.
- Define system and characterize why systems thinking is important when studying the environment.
- Compare and contrast open and closed systems.
- Describe basic economic principles and how they relate to environmental systems.
- Apply the law of supply and demand and a cost-benefit analysis to an environmental problem.
- Understand how the economy of nations affect how the nation as a whole impacts the environment.
- Analyze research as being fact, fiction, or promotional.
- Understand how bias is formed and learn to look for examples of bias in research.
- Describe why sample size is important.
- Understand basic statistics and how it is used to show relationships between two variables.
- Understand how basic field equipment is used.
- Understand how basic lab equipment is used.
- Describe the dos and don’ts of lab safety.
- Define and understand how global positioning and global information systems work.
- Describe and distinguish between 2D and 3D trilateration.

Unit 2

- Identify the major earth systems and describe specific interactions between the systems.
- Describe and draw the composition of the geosphere.
- Describe how plate tectonics works and analyze the effects of plate tectonics on the geosphere.
- Understand how earthquakes and volcanoes are related to the plate tectonic theory and explain the environmental impacts of each.
- Understand the fundamentals of the hydrosphere and cryosphere.
- Diagram the water cycle.
- Explain how the oceans regulate global temperatures through heat capacity, currents, and storing carbon dioxide.
- Compare and contrast the different types of ice found in the cryosphere.
- Explain how the cryosphere regulates global temperature.
- Model the positive feedback loop of melting polar ice.

- Describe the composition of the atmosphere and how it helps support life.
- Explain how ozone depletion works in Antarctica.
- Diagram the layers of the atmosphere and list what happens in every layer.
- Understand how weather works.
- Compare and contrast conduction, convection, and radiation, and explain how these three types of heat transfer work.
- Describe how atmospheric pressure influences weather.
- Explain the needs and characteristics of life.
- Create a table of the six life kingdoms, depicting cellular organization, cellular type, ways of obtaining energy, and examples.

Unit 3

- Define ecosystems and differentiate between biotic and abiotic factors in ecosystems.
- Understand how living things in ecosystems are organized.
- Compare and contrast species to populations.
- Show examples of how biomes are determined by temperature, precipitation, and plants.
- Determine which biome a city resides in by looking at temperature and precipitation graphs.
- Name the major biomes and give examples of different species' adaptations for each biome.
- Understand how organisms are classified in aquatic ecosystems.
- Differentiate between freshwater and saltwater ecosystems and list major characteristics for each.
- Diagram how energy flows and transforms through ecosystems.
- Differentiate between food webs and food chains.
- Understand that almost all energy in ecosystems starts with the sun.
- Apply the First and Second Laws of Thermodynamics to energy flow in ecosystems.
- Give examples of keystone species and describe their special role in ecosystems.
- Quantify energy flow through trophic pyramids, number pyramids, and biomass pyramids.
- Describe the different relationships among species in ecosystems.
- Explain why carbon, oxygen, nitrogen, and phosphorous are important elements for living organisms.
- Diagram carbon, nitrogen, and phosphorous cycles and understand how these elements cycle through the atmosphere, biosphere, geosphere, and hydrosphere.
- Describe natural changes in ecosystems.
- Differentiate between primary and secondary succession and list important organisms for each.
- Describe different ways humans change ecosystems.

Unit 4

- Understand population basics and how these principles impact ecosystems.
- Calculate growth rates, population density, and carrying capacities of populations.
- Describe factors that contribute to exponential population growth, limiting resources, population crashes, and carrying capacity.
- Define demography and explain why predicting future human population trends is important.
- Describe typical human population experiences and different factors that determine future human population.
- Describe how urbanization and slums impact the environment.
- Explain how an urban heat island works.
- Define biodiversity and understand its importance to ecosystems and people.
- Describe four different ways that biodiversity is threatened and give examples of endangered and threatened species.
- Explain different types of conservation efforts, including the Endangered Species Act, to preserve biodiversity.
- Define and differentiate between native, indigenous, and endemic species.
- Describe ecosystem and economic damage inflicted by invasive species.
- Understand the different characteristics of invasive species.
- Define taxonomy, classify endangered species, and identify native plants.

Unit 5

- Define environmental health and understand the importance of the environment on human health.
- Differentiate between the four types of environmental hazards.
- Explain why some people, especially children, are at greater risk of environmental hazards.
- Define epidemiology and the role of populations in environmental health.
- Differentiate between infectious, communicable, and noncommunicable diseases.
- Describe the major pathogens and infectious diseases of the world.
- Understand and diagram how emerging diseases come into existence, spread, and potentially cause great harm to humans.
- Explain antibiotic resistance mechanisms in bacteria.
- Give solutions for combatting infectious and emerging diseases.
- Differentiate between the different types of chemical hazards.
- List the most common and damaging indoor and outdoor toxins, and explain why people are more at risk from indoor chemical hazards.
- Diagram bioaccumulation and biomagnification in an ecosystem.
- Understand why persistent organic pollutants are especially harmful in environments.
- Explain how lifestyle choices affect cancer rates, especially regarding tobacco, obesity, and alcohol use.
- Categorize threats from bioterrorism and biological or chemical warfare.

- Understand how different natural disasters affect human health.
- Explain how scientists determine toxicity through lethal doses and median lethal doses.
- Compare the different methods of evaluating a substance's toxicity.
- List the five factors that influence how people see risk.
- Describe the differences in opinion on the regulation of toxic chemicals.
- Describe major legislation for the regulation of chemicals.

Unit 6

- Understand basic sustainability principles including natural capital, sustainable yield, and degradation.
- Graph different types of land use in the United States.
- Describe the properties of soil and understand its importance to the environment.
- Explain different ways that soil is degraded including erosion, salinization, waterlogging, and desertification.
- Differentiate between the different types of forests and describe their importance.
- Describe various logging methods and the impacts they have on ecosystems.
- Analyze different solutions for sustainable management of forests.
- Differentiate between the different types of agriculture and their impacts on the environment.
- Explain the advantages and disadvantages of the green revolution.
- Discuss several practices for sustainable agriculture, including integrated pest management.
- Explain the advantages and disadvantages of feedlots, free-range pastures, and aquaculture.
- Diagram the environmental impact of different livestock animals.
- Understand the different factors that contribute to global food security.
- Discuss the advantages and disadvantages of GMOs.
- Evaluate different viewpoints on the ethics of food production.
- Categorize the major types of minerals and diagram the rock cycle.
- Explain different mining processes and the environmental impacts of mining.
- Describe sustainable mining solutions.
- Create cost-benefit analysis for land resources.
- Understand why pollution prevention is the best management practice.
- Analyze different federal laws for managing land resources in the United States.

Unit 7

- Understand how fresh water is limited.
- Describe how watersheds work and why they are important for water quality.
- Graph the different ways humans use water.
- Describe how aquifers work and differentiate between confined and unconfined aquifers.
- Know that water, except for fossil water, is a renewable resource.

- Understand that humans, organisms, and ecosystems need adequate and healthy waters in order to survive.
- Describe the different parameters that affect water quality.
- Understand the synergistic effect between different water quality parameters.
- Describe the major pollutants and their sources in different aquatic ecosystems.
- Differentiate between point- and nonpoint-source water pollution.
- Describe different ways to treat wastewater.
- Understand that most pathogens enter water through feces.
- Describe different methods for controlling and filtering runoff.
- Understand the different components of water scarcity.
- Describe why water conflict is tied to water scarcity.
- Describe different solutions for water scarcity.
- Understand how agriculture and industry contribute to water scarcity.
- Describe different legislation to improve water quality in the United States.
- List practical ways to reduce water use.

Unit 8

- Differentiate between primary and secondary air pollutants.
- Understand why indoor pollution is more harmful than outdoor pollution.
- List major air pollutants, their sources, and their effects on human health.
- Differentiate between industrial and photochemical smog.
- Describe the impacts of smog on health.
- Understand the different types of acid deposition and how they affect both structures and ecosystems.
- Describe how natural factors can either decrease or increase air pollution.
- Understand how temperature inversions work and how they impact smog.
- Describe how the Clean Air Act and Montreal Protocol work to promote cleaner air.
- List solutions for reducing emissions of air pollutants.
- Understand the different factors that influence climate.
- Describe how El Niño influences weather and climate.
- Diagram the greenhouse effect and sources of greenhouse gases.
- Understand the main factors that influence climate change.
- Describe how scientists study the climate of the past to understand the climate of today and the future.
- List evidence for a warmer earth.
- Describe both natural and human factors for climate change.
- Understand possible future consequences of climate change.
- Understand different viewpoints on global warming and climate change.
- Understand different solutions and regulations for combating climate change.

Unit 9

- Describe and define different forms of energy.
- Differentiate between kinetic and potential energy.

- Differentiate between types of fossil fuels.
- Explain the advantages and disadvantages of fossil fuels.
- Describe how nuclear power, hydroelectricity, tidal power, and ocean thermal power work and their advantages and disadvantages.
- Differentiate between active and passive solar heating.
- Describe how electricity is made through photovoltaic cells and solar thermal systems.
- Understand the advantages and disadvantages of solar power.
- Describe how wind power works and its advantages and disadvantages.
- Describe how biomass energy works and its advantages and disadvantages.
- Understand how biofuels work and their advantages and disadvantages.
- Describe how geothermal power works and its advantages and disadvantages.
- Describe how hydrogen power works and understand its limitations.
- List creative ways to solve energy problems.
- Analyze different energy conservation strategies.

Unit 10

- Understand why waste is an important environmental issue.
- Distinguish between hazardous, municipal solid, and industrial wastes.
- Describe advantages and disadvantages of sanitary landfills, incinerators, and WTE facilities.
- Define hazardous waste and understand why radioactive wastes need special handling.
- List practical ways to reduce, reuse, and recycle to lessen the impact of waste on the environment.
- Describe how positive environmental change can be influenced through economic principles, environmental policies, and city planning.
- Differentiate between neoclassical, ecological, and environmental economic policies.
- Describe how environmental change can be achieved through a free-market system.
- List the principles that guide environmental policy.
- Describe the steps for creating new environmental policies.
- Understand different factors that create green cities.
- Describe components of a green home.
- Design a green home.
- Differentiate between different types of environmental worldviews.
- Understand how different religious beliefs might influence environmental worldview.
- Describe the problems the Biosphere 2 project faced.
- Create a personal plan to reduce ecological footprint.

Child Development – 2nd Edition

Unit 1

- Analyze marriage preparation.
- Practice good communication skills to improve your relationship.
- Understand the importance of money management within marriage.
- Examine skills related to the prevention of family violence.
- Investigate parenting skills and responsibilities.
- List equipment and supplies needed to care for newborns.
- Assess the safety of purchases for children, such as cribs, toys, clothing, and food.
- Know and be capable of demonstrating first aid, including CPR skills.
- Analyze reasons for medical care and good health practice prior to pregnancy.
- Describe nutritional needs prior to pregnancy.
- Explain the importance of time management.

Unit 2

- Learn how heredity makes each baby unique.
- Know about genetic disorders and the diseases they cause.
- Learn about genetic counseling, tests that detect genetic disorders, and treatments available to fight genetic diseases.
- Explain the process of conception, signs that may indicate pregnancy, and possible complications of pregnancy.
- Learn the different stages of pregnancy.
- Know events that occur during prenatal development.
- Outline the environment's effects on a developing baby.
- Summarize the importance of prenatal care.
- Identify childbirth methods and the signs and stages of labor.
- Describe bonding, routine neonatal care, and the postpartum period.
- Explain changes that occur during the first days of parenthood.
- Describe a newborn's appearance and how to care for a newborn.

Unit 3

- Understand the role of parents in promoting child development.
- Understand the guidelines for making observations of children.
- Discuss the stages of child development.
- Review the behaviorism of B. F. Skinner.
- Consider Maslow's Hierarchy of Human Needs.
- Describe infant physical needs and physical development.
- Describe infant intellectual needs and development.
- Understand how children learn.
- Describe infant emotional needs and emotional development.
- Describe infant social needs, social development, and the importance of guidance and discipline.
- Describe theories concerning social and moral development.

- Describe parental roles in children's physical and mental healthcare.
- Describe the importance and types of childcare.
- Discuss parental roles in education.
- Describe the five levels of human needs identified by Abraham Maslow.
- Relate how wants differ from needs, and describe the different types of goals.

Unit 4

- Describe toddlers' physical needs and physical development.
- Understand toddlers' intellectual needs and intellectual development.
- Comprehend toddlers' emotions, emotional needs, and emotional development.
- Identify toddlers' social needs and social development.
- Learn the best guidance and discipline techniques for toddlers.
- Recognize preschoolers' physical needs and physical development.
- Learn about preschoolers' intellectual needs and their intellectual development.
- Describe preschoolers' emotions, emotional needs, and emotional development.
- Understand preschoolers' social needs and social development.
- Learn the best guidance and discipline techniques for preschoolers.

Unit 5

- Describe school-age children's physical needs and physical development.
- Understand school-age children's intellectual needs and intellectual development.
- Comprehend school-age children's emotions, emotional needs, and emotional development.
- Identify school-age children's social needs and social development.
- Learn the best guidance and discipline techniques for school-age children.
- Learn how identities are established.
- Discover careers involving school-age children.
- Describe legislation and policies that affect school-age children.
- Learn what the communication process is, its importance and the types of communication.
- Use nonverbal communication and listening to communicate more effectively.
- Explain the roles and qualities of leaders and followers.
- Explain how participation in a group or organization can benefit you and the purpose of parliamentary procedures.

Principles of Human Services – 2nd Edition

Unit 1

- Identify factors that make a person unique, including factors that affect personal identity, personality, and self-esteem.
- Describe the different stages of growth.
- Assess the relationship of wellness to achievement.
- Determine implications of substance abuse.
- Identify two types of friends, and describe factors that lead people to form friendships.
- Learn to appreciate diversity.
- Practice ethical and appropriate methods of conflict resolution.
- Explain and practice responsible decision making consistent with personal needs, wants, values, and priorities.
- Establish measurable short- and long-term goals for personal and professional life.

Unit 2

- Describe personal management skills.
- Employ technology to manage resources.
- Analyze consumer buying techniques that promote effective use of resources.
- Investigate sustainable techniques for managing resources.
- List information technology available to consumers and analyze its impact on consumers' lives.
- Describe the personal management skill of time needed for productivity.
- Apply the decision-making process in planning the allocation and use of finances.
- Learn about the communication process, its importance, and the types of communication.
- Analyze the significance of grooming and appearance.
- Learn the importance of clothing selection, maintenance, and repair skills.
- Explain the roles and qualities of leaders.
- Explain how your interests, aptitudes, and abilities relate to your career choice.
- Use effective communication skills to prepare for a successful job interview.
- Identify the qualities and skills needed for job success.
- Learn how to use technology on the job.
- Describe ways to advance in a job and how to terminate employment.
- Describe how to practice leadership skills by being an entrepreneur.

Unit 3

- Describe family structures and their functions, and analyze family members' multiple roles and responsibilities.
- Describe the characteristics of functional families and dysfunctional families.
- Learn the outside forces that influence families.
- Identify children's basic needs.
- Evaluate developmentally appropriate guidance techniques for children.

- Analyze the responsibilities of caregivers for fulfilling children's needs and promoting the safety and development of children.
- Investigate the causes, prevention, and treatment of child abuse.
- Identify how nutrition impacts development, wellness, and productivity over the lifespan.
- Identify the dietary needs of people in different stages of life.
- Know how to prepare nutritious snacks and meals that contribute to wellness and productivity through the lifespan.
- Describe rewards, demands, future trends, and careers in early childhood development and services.
- Describe rewards, demands, future trends, and careers in family and community services.

Unit 4

- Determine the types of difficulties and crises that may occur during an individual's or family's life and which are typical of various stages of a family's life cycle.
- Learn the contributing factors that lead to crises and the effects of them on individuals and families.
- Investigate the causes, prevention, and treatment of relationship and domestic violence.
- Learn appropriate responses, management strategies, and technology available that will help individuals and families handle and resolve crises.
- Describe rewards, demands, future trends, and careers in counseling.
- Describe rewards, demands, future trends, and careers in mental health services.

Unit 5

- Employ technology to manage resources.
- Investigate sustainable techniques for managing resources.
- Analyze consumer buying techniques that promote effective use of resources.
- Describe the rewards, demands, and future trends in consumer services careers.
- Identify employment and entrepreneurial opportunities, as well as preparation requirements in areas of consumer services.
- Describe rewards, demands, and future trends in personal care services.
- Explore new technologies that may affect personal care services.
- Investigate specific state requirements for licensure in personal care services.
- Examine different types of media to achieve maximum impact on targeted client populations.
- Identify employment and entrepreneurial opportunities, as well as preparation requirements in areas of personal care services.
- Describe the three areas of the apparel industry and entry-level, mid-level and professional-level jobs.
- Learn what the communication process is, its importance and the types of communication.
- Use nonverbal communication and listening to communicate more effectively.
- Explain the roles and qualities of leaders and followers.

- Explain how participation in a group or organization can benefit you and the purpose of parliamentary procedures.

Unit 6

- Describe the various housing options and explain the differences between single-family and multi-family homes.
- List factors that affect trends in housing.
- Describe how housing meets needs and describe various influences on housing decisions.
- Identify the advantages and disadvantages of renting versus buying a home.
- Describe the elements of design, how to identify various color schemes and the basics of color concepts.
- Identify the impact of lines and the elements of design in housing design.
- Describe the principles of design and how to use them in home decorating and design.
- Explain the goals of design.
- List and describe different types of floor coverings, wall treatments, window treatments and lighting.
- Demonstrate how to draw a scale drawing of a floor plan and describe the traffic patterns within a room.
- Explain how to prevent accidents in the home and identify ways to provide for personal security.
- Describe basic emergency procedures.
- Explain why it is important to keep a house clean and describe how to select cleaning products and equipment.
- Describe preventative and general home maintenance and tools and supplies that are necessary for repairs.
- Become familiar with careers related to the housing industry.

Bible Literacy Old Testament

Unit 1

- Begin to recognize the impact of the Hebrew scriptures on culture and society.
- Learn the basic content of the Hebrew scriptures.
- Learn the history of the Hebrew scriptures.
- Understand the literary styles and structures of the various books of the Hebrew scriptures.
- Begin to recognize the impact of the Hebrew scriptures on culture and society.
- Discover how the individual books of the Hebrew scriptures are related.

Unit 2

- Define worldview and describe its influence on one's thinking.
- Describe the impact of the Hebrew scriptures on Western views of human life.
- Identify the impact of the Hebrew scriptures on Western views of the equality of all peoples.
- Identify the impact of the Hebrew scriptures on Western views of freedom and human rights.
- Describe the impact of the characteristics of the God of the Hebrew scriptures on society and morals.
- Describe the impact of the Hebrew scriptures on the concept of the family and marriage.
- Describe the impact of the scriptural view of human fallibility on Western culture.
- Describe the impact of the Hebrew scriptures on the development of modern science.
- Describe the impact of the Hebrew scriptures on views of history.
- Describe the impact of the Hebrew scriptures on economics in the West.

Unit 3

- Identify the impact of the Hebrew scriptures in the hands of Christians on politics in the West.
- Describe the impact of the Hebrew scriptures on the western view of murder and human life.
- Identify the influence of the Hebrew scriptures and the *Magna Carta*.
- Identify the impact that Martin Luther's ideas have had on western government and religion.
- Identify the influence that the Hebrew scriptures had on Henry VIII's reforms.
- Describe the impact that Hebrew scriptures had on the formation of the *Mayflower Compact*.
- Describe the impact of the Hebrew scriptures on the *Declaration of Independence*.
- Describe the influence of the Hebrew scriptures on the proceedings of the Constitutional Convention.

- Identify the influence of the Hebrew scriptures on the African-American national consciousness and the Civil Rights movement.

Unit 4

- Describe the impact that the translation of the Hebrew scriptures into the vernacular had on language and culture.
- Describe the influence that the translation of the Authorized King James version had on the development of the English language.
- Identify the impact of the Hebrew scriptures on the writings of William Shakespeare, particularly the play *Macbeth*.
- Describe the impact that the Hebrew scriptures had on Handel's *Messiah* and its widespread influence on culture.
- Identify the influence of the Hebrew scriptures on the epic poem, *Paradise Lost*.
- Identify the impact of the Hebrew scriptures on the novel, *Moby Dick*.
- Identify the impact of the Hebrew scriptures on the writings of J.R.R. Tolkien.
- Identify the influence of the Hebrew scriptures on the poetry of Robert Frost.
- Describe the influence of the Hebrew scriptures on African-American Spirituals.

Unit 5

- Identify the impact of Michelangelo's work *The Creation of Adam* and understand its history and connection to the Hebrew scriptures.
- Analyze the work of Georges de La Tour and understand the connection of his work, *Job Ridiculed by His Wife*, to the Hebrew scriptures.
- Identify the influences on Turner's work, *The Tenth Plague of Egypt*, and understand his thought as an artist.
- Identify the basis for Raphael's work *Ezekiel's Vision*.
- Summarize Rembrandt's work as a prolific artist of Biblical themes.
- Identify the characteristics of Briton Rivière's and the particular aspects of the Hebrew scripture's influence on his work, *Daniel's Answer to the King*.
- Identify the impact of illumination on the Middle Ages and summarize the work of the Azor masters.
- Summarize the life of James Tissot and the impact of his biblical-based work on modern culture.
- Identify the themes within Rosselli's fresco of *The Destruction of Pharaoh's Army* and its connection to the Hebrew scriptures.

Bible Literacy New Testament

Unit 1

- Summarize the history of the New Testament scriptures and their connection to the Hebrew scriptures.
- Identify the particular characteristics of the Gospels.
- Identify the particular characteristics of the Book of Acts.
- Identify the characteristics of the early letters of the Apostle Paul.
- Identify the characteristics of the major letters of the Apostle Paul and their surrounding circumstances.
- Identify the characteristics of the prison and pastoral letters of the Apostle Paul.
- Identify specific characteristics of the book of Hebrews.
- Identify specific characteristics of the general letters found in the New Testament.
- Identify specific characteristics of the book of Revelation.

Unit 2

- Identity the impact of the New Testament scriptures on worldviews.
- Identify the impact of the New Testament scriptures on the welfare of children in the West.
- Summarize the impact of the New Testament scriptures on slavery and its abolition in the West.
- Identify the relationship between women's rights today and the influence of the New Testament scriptures.
- Summarize the basis for the Papacy and its influence in the West.
- Identify the impact of the New Testament scriptures on sexual practices and norms in the West.
- Identify the impact of the New Testament scriptures and the establishment of hospitals.
- Identify the impact of the New Testament scriptures on the modern education system and its history.
- Summarize the influence of the New Testament scriptures on special holidays and days.

Unit 3

- Identify the impact of the New Testament scriptures on politics.
- Describe the impact of the New Testament scriptures on limited government.
- Summarize the impact of the New Testament scriptures throughout the history of the west on the concept of justice.
- Identify the impact of the New Testament scriptures on the American Revolution.
- Summarize the influence of the New Testament scriptures on the Declaration of Independence.
- Summarize the impact of the New Testament scriptures on the Founding Fathers.

- Summarize the impact of the New Testament scriptures on the concept of Just War.
- Identify the impact of the New Testament scriptures on the women's rights movement.
- Identify the influence of the New Testament scriptures on the us Constitution.

Unit 4

- Summarize the impact of the New Testament on Canterbury Tales.
- Identify the influence of the Gospel on the hymn "Amazing Grace."
- Summarize the impact of the New Testament on "The Grand Inquisitor."
- Explain the use of the grotesque in O'Connor's work to emphasize the New Testament concept of grace.
- Summarize the influence of the scriptures on Shakespeare's Hamlet.
- Identify the importance of the biblical idea of grace in Les Miserables.
- Summarize Franz Kafka's reflection on the Law and his despair.
- Identify elements of the Prodigal Son in Great Expectations.
- Examine the impact of the New Testament on Uncle Tom's Cabin.

Unit 5

- Describe the impact of worldview on the arts.
- Summarize the impact of Jesus' birth and life on specific works of art.
- Summarize the impact of Jesus' ministry on specific works of art.
- Describe the impact of the miracles of Jesus on the arts.
- Describe the impact of the teachings of Jesus on the arts.
- Describe the impact of the parables of Jesus on the arts.
- Summarize the impact of the New Testament accounts of the death and resurrection of Jesus on the arts.
- Summarize the impact of the New Testament accounts of Pentecost on the arts.
- Summarize the impact of the Book of Revelation on the arts.

Art History

Unit 1

- Understand and explore the basic definition and meaning of art.
- Learn about career and vocational opportunities in museums.
- Understand the background of prehistoric art while studying examples.
- Understand the background of art in various cultures of the ancient world while studying examples.
- Learn about the four major chronological categories of Egyptian art.
- Understand the background of art in Greek culture while studying examples.
- Understand the background of art in Roman culture while studying examples.

Unit 2

- Have a working knowledge of terms used in medieval structures.
- Understand the characteristics of medieval art.
- Learn about art created during the Dark Ages.
- Learn about art created during the Romanesque period.
- Have a working knowledge of terms used in medieval structures.
- Explore the structural art created during the Gothic period.

Unit 3

- Identify what characteristics make up Renaissance art.
- Articulate the significance of Renaissance art from a historical perspective.
- Define key words that will broaden your understanding of Renaissance art.
- Describe how major historical events affected Renaissance art.
- Answer why Italy was a prime location for the Renaissance to take place.
- Summarize five distinctive features of Renaissance art and what sets it apart from other art movements.
- Describe the impact the Renaissance artists' painting techniques had on the art world.
- Discuss the elements of and the impact of perspective in this time period.
- Identify and describe several major artists and their works from the Renaissance period.
- Thoroughly discuss the relationship that a patron has with an artist and the impact it can make on a product.
- Describe several artistic breakthroughs from this time period.
- Compare and contrast several major artists and their techniques.
- Discuss the historical reasoning behind the Northern Renaissance.
- Compare and contrast the Renaissance from the Northern Renaissance.
- Identify techniques from several Northern Renaissance artists.
- Defend why Leonardo da Vinci is considered a "Renaissance Man."
- Describe several ways that da Vinci has made an impact on both the art world and beyond.

- Identify and discuss Leonardo da Vinci's paintings, inventions, and notebook.

Unit 4

- Describe how the powerful socio-political entities of the 16th and 17th centuries and Baroque art merged.
- Explain why there is no specific style of Baroque art and how its characteristics vary from region to region.
- Explain why Baroque art had its start in Italy around 1600.
- Describe the reasoning of opulence in the palaces during the Baroque art period.
- Compare and contrast the characteristics of High Country and Low Country Baroque art.
- Explain the impact of the Catholic Church's transition on art and its importance as part of the Counter-Reformation.
- Explain major historical events in Europe of the time and their impact on art.
- Describe specific artistic techniques and styles of well-known artists of the Baroque period.
- Explain how artists of the time engaged the viewer in their art.
- Describe the distinguishing characteristics of studio art on the Baroque period.
- Compare and contrast various regions of art as well as several artists from the Baroque period.
- Describe the changes in style among some of the most famous Baroque artists and how they painted for various audiences.
- Compare and contrast French and English Baroque style art.
- Discuss how artists incorporated portrait painting and landscape painting.
- Describe the technique and impact of atmospheric perspective in art.
- Explain how artists used their pieces to include social commentary.
- Explain the impact of the Church's financial backing of Baroque artists.
- Describe various techniques used by Italian and Spanish Baroque artists.
- Explain how Renaissance art affected many Baroque artists.

Unit 5

- Identify key characteristics of Rococo art.
- Describe the impact of historical events on art during this time period.
- Compare art from Rococo to that of Baroque.
- Describe how artists have influence on each other which can be seen in the finished product.
- Describe what The Enlightenment was and how it impacted society.
- Describe some of the major philosophers of The Enlightenment and their contributions.
- Explain the impact The Enlightenment and philosophy had on the art world.
- Explain various artist's techniques and their effects on the art.
- Describe the pros and cons of the choice of subjects the artists choose to paint.
- Explain how portrait painting changed during this time period.
- Describe how the philosophy of the time can directly affect the art world.
- Explain how paintings can have a direct effect on politics.

- Describe the aspects and artists of Neoclassicism.
- Describe how Neoclassicism was found in American art during this time.
- Explain the role of the artist in America during this era.
- Compare the contributions artists made to the American culture and their techniques.
- Describe the various styles of art and architecture found in Washington, D.C.
- Explain controversies that surrounded the construction of many famous buildings.
- Compare and contrast the various monuments and their styles.
- Describe the importance of many choices the architects made for the buildings.
- Explain many examples of symbolism found in several buildings in Washington, D.C.

Unit 6

- Discuss the origin of Romanticism and the foundation of the Romantic's ideas.
- Compare Romanticism to other philosophical and artistic movements surrounding this time.
- Explain the worldview of a Romantic and their philosophy.
- Identify several key people who were a part of the Romantic movement.
- Compare the lifestyles of many Europeans both before and after the Industrial Revolution.
- Discuss the contributions of the Industrial Revolution and its effects on society.
- Explain the beliefs of various parties that arose from this time period.
- Discuss how Romanticism became a result of the Industrial Revolution.
- Explain how the Romantics viewed religion and promoted nationalism.
- Describe how Romantic art differs from Neoclassical art.
- Explain the purposes of the musicians, artists, and authors of the Romantic period.
- Discuss several Romantic leaders' techniques and styles.
- Explain how several paintings reflect the Romantic philosophy.
- Compare and contrast two great Romantic artists: Constable and Turner.
- Discuss the unifying philosophy that ties Romantics from various areas together.
- Discuss the importance of many of the breakthrough approaches from artists of this time.
- Compare and contrast several artists and their techniques.
- Discuss the impact of political paintings from the Romantic period.
- Describe various techniques and ideas used by Romantic artists during this time period.
- Explain the popularity of key pieces from the Romantic period.
- Explain the main objectives for many of the contributors from the Romantic period.

Unit 7

- Discuss the origin of Revivalism and the basis from which the architects based their ideas.

- Compare Revivalism to parallel art movement of the time: Industrialism.
- Describe and analyze various types of architectural concepts.
- Identify several key architects who were influential for their time.
- Describe the impact that photography had on the art culture of the time.
- Explain why photography was welcomed and repelled by artists.
- Describe various types of photography inventions.
- Analyze the impact photography had on the recording of historical events.
- Describe the impact that influential photographers have had on art history and the advances of photography.
- Explain several controversies that surround various photographers and photographs.
- Describe various technical advances that photographers used to improve photography.
- Identify several influential photographers and describe the photographs they captured.
- Describe the movement in art known as Realism.
- Explain how photography influenced the movement of Realism.
- Analyze various artist's techniques for their uniqueness and purpose.
- Identify several influential artists of this time and describe their impact on the art world.
- Discuss the various themes that American Realists portray in their art.
- Identify and describe paintings done by influential artists of the time.
- Understand the deliberate artistic choices each artist made to achieve a particular purpose.
- Describe the intentions behind various paintings done during this time period.

Unit 8

- Compare the Impressionist art movement to the prior artistic movements.
- Describe the origins, style, and techniques of the artists in the Impressionist movement.
- Explain some of the main figures among the Impressionists.
- Describe the reaction of both art critics and the public to the Impressionist movement.
- Compare and contrast two major artists of the Impressionist movement: Manet and Monet.
- Articulate the impact of several paintings and series the artists contributed to the art world.
- Discuss the critics' reactions to several paintings and the style of both artists.
- Explain the origin and importance of the name given to the movement.
- Discuss the various techniques of Renoir and Degas.
- Articulate the effects the unique techniques have on the overall effect of particular paintings.
- Discuss the impact that these artists had on the art community at the time as well as the movements in the future, and how historical events affected their art.
- Identify specific artists' style and preference in subject matter and each other's work.
- Describe how the impact of the society's expectations affected the artists.

- Explain how the artists faced various obstacles and restrictions in order to create their art.
- Describe the impact specific artists have had on the art world.
- Describe the major difference between the two different styles of the Post-Impressionism.
- Describe science's impact on art as well as artists' styles and techniques of creating art.
- Compare the art style and artists of Impressionism and Post-Impressionism.
- Describe how the Post-Impressionists impacted modern art.
- Discuss the influence that certain Post-Impressionists have had on the art world.
- Describe certain artists' style and technique, as well as their style's progression.
- Describe and identify how the events of an artist's life affects the art he produces.

Unit 9

- Explain the influence that specific artists made on modern art.
- Describe the specific techniques and styles of various artists.
- Describe the various characteristics of Expressionism.
- Explain the impact of an artist's background on the art he later produces.
- Describe the influence of certain paintings on our culture.
- Explain how one movement in art fluidly contributes to the next through the choices that the artists make.
- Describe the various uses of color and lines to express emotions in art.
- Articulate the importance and impact of various pieces of art from Matisse.
- Explain the impact of Matisse's personal life on his art and how it can be seen in his art.
- Evaluate the artistic evolution of a prolific artist during the twentieth century.
- Explain major art movements of the time and how certain artists contributed.
- Articulate how artists influence each other's styles and techniques.
- Discuss how artists often use their paintings as a form of social expression and protest.
- Discuss the style and technique of certain artists and the influence it had on the art society.
- Describe the purposes of two major art movements of the time.
- Explain the influence several artists had on the art culture of the time.
- Discuss major pieces of art that came out of this era and the influence they have had.
- Describe the way the lifestyles of various artists are reflected in their art.
- Articulate the major points of some of the most recognizable pieces of art from this era.

Unit 10

- Compare the major focus of art of the 1800s and that of the 1900s.
- Explain how politics can have an influence in the art that is created.
- Examine the reasoning why some artists drastically changed their style of art as a result of what was happening in the culture at the time.

- Describe various major art movements and their contributions and influence in the art world.
- Explain how precision and technical choices that these artists made affected how we see art.
- Articulate how the art epicenter moved from one central location to another.
- Explain how one movement in art has the influence to inspire another.
- Describe various techniques of influential artists.
- Compare the style of art from one movement to another.
- Identify various artists and their unique techniques.
- Explain the philosophy behind the movements and the artists' works.
- Describe and identify various artists' works from this time period.
- Describe innovative approaches that many architects used during the 20th century.
- Identify and describe various buildings from this time period.
- Compare several different art styles and movements from the past fifty years.
- Explain the philosophy of many artists during this time.
- Describe what prompted the return of the artist's emotion and subjectivity in art.
- Explain the influence of social and political events that made an impact in the art world.
- Describe specific artists' motivations and unique artistic techniques.

Speech

Unit 1

- Define communication.
- Identify the significance of communication.
- Identify key components of communication.
- Identify functions of communication.
- Define oral communication.
- Determine significant aspects of oral communication.
- Define nonverbal communication.
- Identify the building blocks of nonverbal communication and how they work.
- Define the listening process.
- Understand the significance of listening in the communication process.
- Recognize the importance of memory.
- Define perception and evaluation.
- Identify how perception affects different viewpoints.
- Understand how to see objectively.
- Understand the importance of evaluating within communication.

Unit 2

- Understand the role of culture in communication.
- Identify the way in which culture influences communication.
- Identify the role of the individual within communication.
- Understand the significance of personal responsibility within communication.
- Define interpersonal communication.
- Understand the significance of interpersonal communication.
- Explore aspects of interpersonal communication.
- Recognize characteristics of successful communication.
- Identify life-applicable examples of successful vs. unsuccessful communication.
- Identify strategies for successful communication.
- Identify how to effectively manage conflicts.
- Understand the dynamics of interpersonal situations.
- Analyze examples of interpersonal situations.

Unit 3

- Define a democratic society.
- Define group communication.
- Identify how a group works within a democratic society.
- Identify purposes of the group.
- Identify functions of the group.
- Analyze roles within a group.

- Identify the significance of a group and its parts.
- Define parliamentary procedure.
- Identify parliamentary procedure within group communication.
- Define impromptu speech.
- Identify the appropriateness of impromptu speech versus group speech.
- Analyze methods by which to organize group communication.
- Successfully organize group communication.

Unit 4

- Identify the role of the self.
- Identify the significance of the self in communication.
- Become familiar with the self.
- Know your personal strengths and weaknesses.
- Set your personal goals.
- Become familiar with your likes and dislikes.
- Identify reasons for hesitation.
- Identify ways to work through hesitation toward confidence.
- Building self-confidence.
- Creating a way in which to express confidence.
- Making good decisions.
- Putting confidence into action.

Unit 5

- Define and analyze the audience, purpose, and occasion.
- Determine goals.
- Understand how to find topic ideas.
- Identify choices.
- Identify useful sources.
- Research through utilization of sources.
- Understand plagiarism and its consequences.
- Understand how to avoid plagiarizing.
- Identify types of visual aids.
- Determine appropriate aids based on a project.
- Define different types of thinking.
- Understand and create methods of organizing information.
- Understand the basis and parts of a speech manuscript.
- Practice with understanding a manuscript.
- Prepare and gather materials for a speech.
- Prepare and deliver a speech for an audience.
- Create and present a speech.

Career and College Transitions

Unit 1

- Understand the importance of exploring career fields and what is involved in making a career choice.
- Understand the importance of a postsecondary education.
- Know what career pathways and career clusters are and how they can help with career choices.
- Understand how interests, skills, and aptitudes relate to career choice.
- Know the importance of values, standards, and their influence on a career choice.
- Understand the importance of goal setting.
- Describe the difference between short- and long-term goals, and be able to identify educational, career, personal development, and recreational goals.
- Describe how to identify and prioritize goals.
- Understand how to change a bad habit.
- Know the factors that can prevent individuals from reaching their goals.
- Recount the steps involved in making a good decision.
- Understand the difference between positive and negative peer pressure.
- Understand the consequences and responsibilities of making decisions.
- Identify the importance and components of motivation.
- Know how to develop positive self-efficacy beliefs.

Unit 2

- Understand the importance of time management.
- Apply various time management tools, techniques, and tips in daily life.
- Know how to create appropriate study environments.
- Understand the consequences of procrastination.
- Identify common time thieves and know how to avoid them.
- Understand the importance of using study strategies.
- Know how to effectively use concept cards, self-questioning techniques, and notes to study.
- Describe the benefits of study groups.
- Understand the importance of note taking.
- Describe the various methods of good note taking.
- Understand the role that memory has in learning.
- Understand the process of memory acquisition.
- Know the strategies to improve memory.
- Understand the importance of good communication skills.
- Describe the communication process and the different types of communication.
- Understand the importance, purpose, and correct use of body language.
- Describe the importance of learning to listen.
- Complete a time profile.
- Use memory techniques to recite the Preamble to the Constitution.
- Begin a community service project.

Unit 3

- Understand the different types of college assessments, their purpose, and when it is best to take them.
- Identify how different college assessments are scored and understand how to read college assessment results.
- Understand and apply general guidelines related to success on college assessments.
- Describe the importance of reading test directions.
- Know how to manage your time during tests.
- Explain the difference between distributed and massed practice and why distributed practice is more valuable.
- Identify and utilize available campus resources to help prepare for college assessments and applications.
- Understand the difference between objective and subjective questions and know how to best answer each type of question.
- Know the steps needed to create a well-written essay.
- Understand the importance of utilizing reciprocal questioning, the question-and-answer technique, and other study methods in preparing for college assessments.
- Understand the difference between lower- and higher-order thinking skills in relation to test preparation.
- Identify the three higher-order thinking skills on tests by using verbs as clues.
- Understand the importance of critical thinking skills and know how to improve those skills.
- Identify various test-taking tips.
- Register and take the basic college assessments.
- Set goals for your chosen community service project.

Unit 4

- Know how to identify, rank, and research your career interests.
- Understand how to set educational goals with your chosen career field in mind.
- Identify the characteristics to look for when selecting a postsecondary school.
- Understand why and how to rank schools based on your needs, wants, values, and goals.
- Describe what schools look for in prospective students.
- Identify the steps needed to complete a college application.
- Understand the importance of letters of recommendation and how to select the best resources to write them.
- Explain how to write a good application essay.
- Identify the resources needed to complete college applications on time.
- Describe various student housing options and know how to apply for student housing.
- Understand the importance of placing housing deadlines on your application timeline.
- Understand how housing deposits, refunds, and roommate selections work.
- Learn about the various types of college fees.

- Describe the different meal plans offered and know how to choose the best plan for you.
- Explain the importance of utilizing a college online management system.
- Research a career field based on your personality and interests.
- Form a plan for your chosen community service project.

Unit 5

- Understand what the FAFSA is and how it relates to receiving financial aid.
- Understand the steps involved in applying for financial aid.
- Identify the importance of scholarships, grants, loans, and work-study programs and know how to apply for them.
- Know how to make and keep a budget.
- Learn how to save money on food and living costs, including the cost of books and supplies.
- Describe the different types of loan repayment plans.
- Understand the pros and cons of having a credit card in college.
- Create a professional and useful college and career portfolio.

Unit 6

- Explain why you should visit college campuses in person.
- Identify the questions you should ask on a campus tour.
- Know the best time to visit a college and how to arrange a visit.
- Identify the similarities and differences between high school and college.
- Know how to adapt to the changes that come with entering college.
- Review how habits impact school success.
- Know how to foster good in-person communication with college faculty and staff.
- Understand the functions of online management systems and how those functions create communication between students and faculty.
- Identify key factors in conducting a successful interview with an instructor.
- Identify the appropriate steps to take when a course issue arises.
- Understand when and how to change a course.
- Discuss the benefits of obtaining a college degree.
- Identify the importance of participating in social activities while in college.
- Describe how building lasting relationships contributes to college success.
- Identify the common pitfalls that college freshman face.
- Describe how to overcome common pitfalls in order to achieve college success.
- Interview three classmates regarding the transition to college.
- Compose professional and appropriate e-mails.
- Interview college instructors regarding a field of interest.
- Implement your chosen community service project.

Unit 7

- Describe the purpose of orientation programs.
- Identify the behaviors that are essential to college success.

- Understand the importance of self-monitoring.
- Identify the most common services available to college students.
- Understand the importance of utilizing college services.
- Identify how good teamwork and collaboration are related to success.
- Describe how to work well with others.
- Understand the importance of accepting cultural and ethnic differences.
- Describe the significance of the Declaration of Independence.
- Identify the rights and responsibilities of citizens today.
- Understand key elements of the federal election process.
- Explain how being an active citizen is related to success.
- Define plagiarism and understand why it is unethical.
- Explain the purpose of copyright laws.
- Identify the possible consequences of academic dishonesty.
- Describe how to use social media sites appropriately.
- Describe ways to maintain good health.
- Identify possible sources of stress and know how to handle stress effectively.
- Understand the importance of accessing college health services.
- Implement a personal plan to overcome stress.
- Evaluate your role as leader in your community service project.

Unit 8

- Understand the concept of divided attention.
- Distinguish between shallow and deep processing.
- Utilize chunking as a way to improve memory.
- Identify how health relates to memory.
- Compare and contrast passive and active learning environments.
- Describe the benefits of being an active learner.
- Understand the importance of lifelong learning.
- Describe the three types of learning styles.
- Understand how to create a study environment based on your learning style.
- Identify ways to adapt to different teaching styles.
- Understand the purpose of personality and learning inventories.
- Identify resources that assess learning styles.
- Describe the concept of multiple intelligences.
- Identify the strengths of people who possess different intelligences.
- Define synergy and explain its importance.
- Understand how to utilize your strengths in different academic settings.
- Identify career options that relate to the eight multiple intelligences.
- Create methods to teach to various learning styles.
- Take an online learning inventory.
- Continue to progress towards your community service project goal.

Unit 9

- Understand the purpose of prereading strategies.
- Identify how to use prereading strategies to improve reading comprehension.

- Explain the benefits of graphs, maps, and boldface terms.
- Describe the SQ4R reading strategy.
- Understand the difference between highlighting and annotating.
- Know how to properly highlight and annotate texts.
- Describe various methods of annotation.
- Explain the differences between high school and college writing.
- Describe various types of college writing.
- Identify ways to write successfully.
- Know the difference between primary and secondary sources.
- Identify when it is best to use primary and secondary sources.
- Determine whether a source is reliable.
- Understand how to write a persuasive essay.
- Write an effective persuasive essay.
- Work towards completing your community service project.

Unit 10

- Choose a field of interest to research.
- Write about a field of interest using the research and writing process.
- Revise, proofread, and edit your paper.
- Participate in peer and self-evaluations.
- Create a final draft of your paper.
- Create a multimedia presentation on your selected field of interest.
- Give a professional and entertaining presentation to the class.
- Complete the college and career portfolio.

Logic I

Unit 1

- Understand that logic is “right thinking or reasoning.”
- Understand that logic is a wide field involving art, science, and skill.
- Recognize the contribution of Greek philosophers, Socrates and Aristotle, to the establishment of logic as a field of study.
- Understand the importance of logic in a classical education.
- Distinguish the difference between formal logic and informal logic.
- Compare and contrast inductive and deductive reasoning.
- Define fallacy.
- Recognize and analyze fallacious arguments of relevance.
- Recognize and describe ad hominem abusive fallacies.
- Recognize and describe ad hominem circumstantial fallacies.
- Recognize and describe tu quoque fallacies.
- Recognize and describe genetic fallacies.
- Recognize and describe mob appeal fallacies.
- Recognize and understand the subtle difference between an appeal to belief and an appeal to popularity.
- Recognize and describe snob appeal fallacies.

Unit 2

- Recognize, classify, and describe an appeal to fear.
- Recognize and describe the appeal to force as a variation of the appeal to fear.
- Recognize and describe peer pressure as a variation of the appeal to fear.
- Recognize, classify, and describe the appeals to pity and laughter.
- Recognize, classify, and describe the appeals to flattery, ridicule, and spite.
- Recognize, classify, and describe red herrings.
- Understand how irrelevant goals or functions are fallacious.
- Understand how an irrelevant thesis is fallacious.
- Recognize, classify, and describe the appeal to ignorance.
- Recognize and describe the straw man fallacy.
- Understand how accusations of a phobia might be a straw man argument.
- Recognize and describe chronological snobbery.
- Differentiate between the appeal to novelty and the appeal to tradition.
- Recognize and describe appeal to authority fallacies.

Unit 3

- Understand that fallacies of presumption introduce false assumptions into an argument.
- Understand that fallacies of presupposition are a subcategory of fallacies of presumption.

- Recognize, classify, and describe the four types of fallacies that beg the question.
- Recognize, classify, and describe the fallacy of bifurcation.
- Recognize, classify, and describe the fallacy of moderation.
- Recognize, classify, and describe the fallacy of composition.
- Recognize, classify, and describe the fallacy of division.
- Recognize, classify, and describe the is-ought fallacy.
- Distinguish between the two variants of the fallacy of division.
- Discern the relationship between the fallacies of division and composition.
- Recognize, classify, and describe the fallacy of sweeping generalization (accident).
- Recognize, classify, and describe the fallacy of hasty generalization (converse accident).
- Recognize, classify, and describe the fallacy of expediency and special pleading.
- Define the principle of relevant difference.

Unit 4

- Recognize, classify, and describe the fallacy of false analogy.
- Recognize, classify, and describe the fallacy of false cause.
- Distinguish between the four types of false cause.
- Recognize, classify, and describe the fallacy of biased statistics.
- Distinguish between fake precision and biased statistics.
- Understand the pitfalls of ambiguous language in a dialogue.
- Recognize and describe the fallacy of equivocation.
- Recognize and describe the fallacy of accent.
- Recognize and describe fallacies that make a distinction without a difference.
- Understand how euphemism is a form of distinction without a difference.
- Recognize and discern between various styles of argumentative dialogues.
- Demonstrate an understanding of the stages of argumentative dialogue.
- Understand how fallacies present challenges in natural language argumentation.

Unit 5

- Understand Aristotle's theory of the three modes of persuasion.
- Define ethos, pathos, and logos.
- Understand principles of argumentative dialogue.
- Explain the importance of language in argumentative dialogue.
- Understand the relationship between correlations and causes.
- Understand that determining a cause is complex and may involve multiple factors.
- Recognize barriers to logical thinking.
- Analyze how barriers to logical thinking relate to Aristotle's three modes of persuasion.
- Differentiate the positive and negative aspects of emotion in argumentative dialogue.
- Understand ways that illogical thinking may harm argumentative dialogue.
- Recognize ways that diversionary tactics may harm argumentative dialogue.

- Consolidate understanding of fallacies of relevance.
- Consolidate understanding of fallacies of presumption.
- Consolidate understanding of fallacies of clarity.
- Understand Aristotle's relationship to formal logic.
- Distinguish the difference between categorical and propositional logic.
- Define the three acts of the mind.

Logic II

Unit 1

- Describe the nature and importance of logic.
- Compare and contrast informal and formal logic.
- Assess the differences between deductive and inductive reasoning.
- Outline the history and nature of Aristotelian formal logic.
- Discern the difference between categorical and propositional logic.
- Analyze the nature of formal logic.
- Describe the three acts of the mind.
- Examine the role of simple apprehension as the first act of the mind.
- Identify and evaluate terms.
- Differentiate between comprehension and extension when classifying terms.
- Classify terms using the Porphyrian tree.
- Distinguish terms using signification and supposition.

Unit 2

- Examine the role of judgment as the second act of the mind.
- Define argument translation, categorical forms, and propositions.
- Identify propositions in everyday language.
- Evaluate the grammatical structure of sentences to find propositions.
- Identify the subject term, *copula*, and predicate term in propositions.
- Determine the quality and quantity of propositions.
- Distinguish the characteristics of the four forms of categorical propositions.
- Explain and apply Euler's circles in translating arguments.
- Employ proper quantifiers when translating arguments.
- Translate propositions into categorical form.

Unit 3

- Differentiate between implications and inferences.
- Identify and explain relationships of opposition using the square of opposition.
- Recognize and apply the relationships of opposition of contradiction, contrariety, and subcontrariety to determine propositional inferences.
- Recognize and apply the relationships of opposition of subimplication and superimplication to determine propositional inferences.
- Apply inference analysis to analyze one's beliefs and the beliefs of others.
- Identify, explain, and apply the obverse, converse, and contraposition relationships of equivalence.

Unit 4

- Rearrange arguments into standard-form syllogisms.
- Identify major, minor, and middle terms.
- Identify major premises, minor premises, and conclusions.

- Distinguish between standard-form syllogisms and enthymemes.
- Apply the terminological rules in order to determine the validity of syllogisms.
- Apply the qualitative rules in order to determine the validity of syllogisms.
- Determine the moods and figures of syllogisms.
- Categorize figures by using the Barbara, Celarent, Darii, Ferio mnemonic aid.
- Discriminate the validity, truthfulness, and soundness of syllogisms.
- Apply the counterexample method for determining validity.

Unit 5

- Apply the counterexample method for determining validity.
- Recognize and differentiate between types of disagreements.
- Determine the meaning of words by applying the seven rules for defining words.
- Differentiate between extension and intention.
- Identify and explain the modes of definition.
- Identify opinions and worldviews in presuppositional disputes.
- Identify and evaluate three types of hypothetical syllogisms: conditional, disjunctive, and conjunctive.

Music Appreciation

Unit 1

- Define music.
- Understand the different ways in which music is used.
- Examine why we should study music.
- Examine how to best study music.
- Define the fundamental elements of music.
- Understand how those fundamental elements combine to make good music.
- Understand the role of rhythm, meter, and tempo in music.
- Understand basic rhythmic notation.
- Read and notate rhythms with notes and rests of all values.
- Understand how time signatures relate to meter.
- Demonstrate an ability to use rhythm by performing rhythm studies and taking basic rhythmic dictation.
- Understand and use various rhythmic counting systems.
- Define more advanced rhythmic terms such as articulation and syncopation.
- Compose, notate, and perform original rhythms.
- Understand the role of pitch in music.
- Understand the basics of notating pitch.

Unit 2

- Increase understanding of pitch.
- Read and notate pitches in both treble and bass clefs.
- Understand intervals and use them to describe the distances between pitches.
- Become familiar with the layout of the keyboard.
- Notate pitches on the staff that correspond with notes of the keyboard.
- Distinguish between half and whole steps.
- Recognize and manipulate diatonic and chromatic scales.
- Identify and write major and minor scales and triads.
- Understand the rules necessary to notate pitch clearly and accurately.
- Examine and identify the two main pitch-naming systems.
- Define the major elements of melody.
- Write simple melodies.
- Understand the basic concepts of harmony.
- Apply the concepts of rhythm and pitch.

Unit 3

- Classify instruments by method of sound generation.
- Classify instruments by traditional categories.
- Define the four steps in the vocal production of sound.
- Define vocal range and identify the traditional vocal parts.
- Examine how vocal music is typically performed.
- Identify the members of the string family, their parts, how they are played, and their approximate ranges.

- Identify the members of the woodwind family, how they are played, and their relative ranges.
- Identify the members of the brass family, how they are played, and their relative ranges.
- Identify the members of the percussion family, how they are played, and the influences on their historical development.
- Identify the members of the keyboard family, how they produce sound, and how they are related in their development.
- Identify the typical membership of the orchestra, its organization, and its layout.
- Identify instruments of other cultures, along with their similarities and differences with Western instruments.

Unit 4

- Recognize and begin to analyze form in various fine arts.
- Recognize and differentiate between various textures.
- Understand how tonality affects chord progressions and how chord progression can establish or change tonality.
- Identify various musical forms and their parts.
- Diagram simple and complex forms.
- Explain how forms develop musical interest.
- Define common types of musical variation.
- Compose short phrases using the techniques of musical variation.
- Examine the form of fugue and identify the occurrences of the subject by listening.
- Distinguish between form and genre.

Unit 5

- Explore the reasons for studying music history.
- Examine the characteristics of ancient music and how music is related to ancient culture and philosophy.
- Examine the characteristics of Renaissance music, including its genres and styles, and how music related to Renaissance culture.
- Examine the historical setting of the Baroque period.
- Examine the general musical trends of the Baroque period.
- Identify the uses of Baroque vocal and instrumental music.
- Compare and contrast Baroque musical characteristics with those of other times.
- Examine the biography, musical characteristics, and compositions of prominent Baroque composers.
- Listen to Baroque musical examples, identifying form, instrumentation, and unique characteristics.

Unit 6

- Identify what makes music classical.
- Compare the general characteristics of classical music with the characteristics of other classic works.
- Identify and describe how music was used in the Classical period.

- Identify and explore how Enlightenment ideas influenced the music of the Classical period.
- Compare and contrast the music of the Classical period with music of the Baroque period.
- Identify and examine the forms and genres in use during the Classical period.
- Explore the historical background of composers Haydn and Mozart.
- Compare and contrast the music of Haydn and Mozart.
- Compare and contrast the music of Haydn and Mozart with the music of other time periods.
- Experience, examine, and explore the music of Haydn and Mozart by listening critically to recordings of their music.
- Examine the characteristics that make a composer great.
- Experience, examine, and explore the music of Beethoven and Mozart through recordings.
- Identify and describe how key is used both within an individual movement and between movements of a multi-movement piece.
- Compare and contrast the music of the Classical period with music from other periods.
- Understand concert etiquette as it relates to the performance of large multi-movement works.
- Examine how the development of vocal music compared to the development of other types of music during the Classical period.

Unit 7

- Define the Romantic period.
- Compare and contrast the Romantic period with the Classical period.
- Identify and describe the music of the Romantic period.
- Identify and explore the relationship between Romantic music and the other arts.
- Identify and explore the impact of societal and economic factors on the music and performances of the Romantic period.
- Compare and contrast the lied with other musical genres.
- Compare and contrast the character piece with other genres.
- Compare and contrast Romantic period opera with other music.
- Examine music from a variety of styles.
- Identify and explore the relationship between Romantic music and other arts.
- Compare and contrast the virtuosic showpiece with other music.
- Compare and contrast the various Romantic genres with genres from other time periods.
- Examine music from a variety of styles.
- Identify and explore the relationship between Romantic music and other arts.
- Examine the composer Johannes Brahms and explain how his music represented a departure from traditional Romantic period composition.

Unit 8

- Define and explore Modernism.
- Identify and explore the relationship between Modernist music and the other arts.
- Identify and explore the impact of societal and economic factors on Modernist composers and artists.

- Identify important Modernist composers.
- Compare and contrast the various movements within Modernism.
- Explore American music from the colonial period until 1900.
- Compare early American music with other music of the same time period.
- Explain the influence of African-American culture on American music.
- Identify the important American classical composers of the 20th century and examine their style.
- Explore American popular music in the 20th century.
- Explore the history of American musical theater.
- Identify important historical figures in American musical theater.
- Explain why music from other cultures can be important in understanding music from our own culture.
- Identify specific examples of valuable musical traditions from international cultures.
- Conduct research on a specific composer.
- Construct a well-organized essay on a specific composer.

Unit 9

- Identify and interpret appropriate music terminology.
- Identify the alto and tenor clefs and write notes in each.
- Review the structure of major and minor scales.
- Demonstrate an understanding of key signatures and the circle of fifths.
- Introduce the concept of enharmonic keys.
- Introduce the concepts of parallel keys and relative keys.
- Identify and describe certain scale degrees.
- Define the concepts necessary for naming intervals by size and type.
- Define the concepts necessary to build and identify the various types of triads.
- Introduce the seventh chord.
- Define the concept of inversions and identify chords in various inversions.
- Consider the possible practical uses of music theory.
- Identify and explore the impact of notation technology on music and musicians.
- Define and apply concepts of music notation.
- Define and apply simple concepts of rhythm and meter while notating musical examples.
- Read notation systems and examine the rules that allow for clear musical notation.
- Read and notate music that incorporates rhythmic patterns in simple meter.
- Include appropriate musical symbols and expressive terms such as dynamics and articulations while notating musical examples.
- Demonstrate appropriate use of musical notation software in notating musical examples.
- Apply appropriate musical notation for various genres.
- Analyze a piece of music to discover its component parts.
- Examine the considerations that are part of the process of arranging music.
- Demonstrate a working understanding of transposing instruments.
- Demonstrate the ability to complete simple arrangement projects using music notation software.

Unit 10

- Demonstrate understanding of critical listening skills.
- Design and apply criteria for making informed judgments regarding the quality and effectiveness of musical performances.
- Exhibit appropriate performance techniques for recording sessions and concerts.
- Develop processes for self-evaluation and develop tools for personal artistic improvement.
- Evaluate musical performances by comparing them to exemplary models.
- Practice informed concert etiquette as an audience member during a live performance.
- Discover health and wellness concepts related to music.
- Identify and explore the relationship between music and science.
- Understand how correct intonation is related to the physical mechanism of the creation of sound.
- Identify music-related careers and interests.
- Identify and explore tools for college and career preparation.
- Explore the history of changes in the use of technology in music.
- Explore the impact of technology and economic factors on music and musicians.

Virtual Business

Unit 1

- Understand the origins of the internet.
- Define virtual business.
- List the three primary business structures.
- Identify the nature, history, and duties of a virtual business office.
- Determine particulars of communicating with clients locally and remotely.
- Set appropriate fees for services provided by a virtual business office.
- Comply with all applicable rules, laws, and regulations.
- List benefits afforded to virtual business clients.
- Examine global business considerations.

Unit 2

- Determine appropriate marketing of a virtual business office.
- Understand the different pricing structures of e-marketing.
- Define basic e-marketing terms.
- Know the basic strategies for effective online video advertising.
- Compare and contrast e-marketing vs. traditional marketing.
- Know the criteria used by companies to decide which marketing method is best.
- Know the steps necessary to start a virtual business.
- Describe the steps to successfully market a virtual business.
- List the basic components of a marketing plan.
- Define basic cloud service terms.
- Understand the various project management tools.
- Explore popular project management tool systems available to companies.
- Know the pros and cons of each project management tool system.
- Participate in leadership and career development activities.
- Develop a project plan.
- Initiate a project, including identifying resources needed for a project.
- Execute a project.
- Monitor and control a project, including coordinating work with team members.
- Close a project.

Unit 3

- Understand the purpose of business licenses.
- Know the primary types of business licenses.
- Determine local licensing requirements for a virtual business office.
- Understand the purpose of legal business structures.
- List the primary business legal forms.
- Describe the advantages and disadvantages of the various forms of legal structures of a virtual business office.
- Describe the primary legal issues related to running a virtual business office.
- Understand the key steps in protecting customer privacy.
- Research relevant tax issues.

- Know the tax rates of each legal business structure.
- Calculate corporate tax rates.
- Know the considerations and steps to setting up a virtual business office.
- Set up a virtual business office.
- Demonstrate professional standards and employability skills required for business and industry.
- Communicate effectively with others using oral and written skills.
- Demonstrate professionalism by conducting oneself in a manner appropriate for the profession and workplace.
- Conduct an interview with the manager or owner of a virtual business.

Unit 4

- Describe the nature of business records needed for a virtual business office.
- Know the primary business record types.
- Understand how business records are used internally to benefit businesses.
- Maintain business records to facilitate management.
- Maintain customer records.
- Define and understand appropriate bookkeeping terminology.
- Describe the various asset types.
- Understand the differences between accounts payable and accounts receivable.
- Prepare appropriate bookkeeping records, including basic balance sheets and income statements.
- Acquire information to analyze business decision-making.
- Monitor internal records for business information.
- Know how to interpret income statements and balance sheets.
- Understand the importance of balance sheet ratios.
- Apply fundamental bookkeeping skills for a virtual business office.
- Establish pricing, billing, and collections procedures.
- Know the basic pricing methods.
- Understand the supply-demand curve.
- Conduct an environmental scan to obtain business information and interpret statistical findings.
- Research pricing and billing practices of a virtual business.

Unit 5

- Assess personality characteristics to determine suitability for self-employment.
- Perform a Myers-Briggs Type Indicator® personality test and assess results.
- Take a personal inventory of skills, interests, strengths, and weaknesses.
- Complete and reflect on the MAPP™ career assessment test.
- Analyze personal inventory and determine appropriate virtual services to offer.
- Research various support resources for a virtual business.
- Know the basics of a business plan, including: executive summary, mission statement, long-and short-term goals, marketing plan, financial plan, and organizational plan.
- Prepare a business plan, including the following sections: executive summary, mission statement, long- and short-term goals, marketing plan, financial plan, and organizational plan.
- Create and design a website for a virtual business office.

Career Preparation

Unit 1

- Preview the contents of Career Preparation I.
- Explain the idea of the workplace.
- Understand remuneration.
- Describe the meaning of the term “at will.”
- Examine various career clusters and the jobs within them.
- Understand the expectations that employers have for their employees.
- Understand the importance of standing firm on personal convictions.
- Differentiate between flexibility and compromise.
- Differentiate between privacy and confidentiality.
- Describe the necessity of protecting privacy.
- Explain the circumstances under which information must be kept confidential.
- Explain why a confidence might need to be broken.
- Discover laws that protect workers.
- Research laws that are applicable to the workplace in your chosen career field.
- Write a report covering the laws and regulations that govern your chosen career field.
- Explain the purpose of the Fair Labor Standards Act.
- Describe employee rights under the FLSA.

Unit 2

- Create and follow an action plan for finding a job.
- Describe apprenticeships and internships.
- Create an electronic portfolio for Career Preparation.
- Write a personal information sheet.
- Write a résumé.
- Collect documents required for employment.
- Analyze the future outlook of several career fields.
- Describe the resources available to you to help with your job search.
- Understand how to complete a job application.
- Know how to write a letter of intent.
- Write a sample letter of intent.

Unit 3

- Practice good grooming.
- Be appropriate in your appearance and manners.
- Practice high personal standards in interviews and at work.
- Understand the importance of good health to finding and maintaining a job.
- Describe poor health practices.
- Describe mental health disorders.
- Explain how stress can be managed.
- Describe attitudes and work habits that make a prospect attractive to employers.
- Understand how to apply personal etiquette to business situations.
- Understand the particulars of business etiquette and corporate culture.

- Establish priorities so that you can complete all assigned tasks and meet deadlines.
- Create a schedule that reflects your priorities.
- Explain how to keep a job.
- Describe how to leave a job on good terms.
- Explain the purpose of Career and Technical Student Organizations (CTSOs).
- Describe various CTSOs.
- Research a CTSO in a chosen career field.
- Understand the importance of college in the career path.

Unit 4

- Understand the importance of character.
- Evaluate character traits in your own life.
- Understand the time-for-money exchange.
- Review the character traits punctuality and dependability.
- Review the character trait initiative.
- Understand the importance of working well without supervision.
- Understanding the importance of energy, a positive attitude, and high moral ethics to a career.
- Define stress and how it affects attitude.
- Understand the character traits respect, obedience, flexibility, and responsibility and their importance in developing a relationship with the supervisor.
- Understand the character traits cooperation, creativity, deference, discretion, forgiveness, meekness, sensitivity, tolerance and their importance in relationships with coworkers.
- Develop an appreciation for diversity.
- Realize the importance of teamwork.
- Describe what it means to be a team player.
- Define your team.
- Consider ways to become a valuable team member.
- Recount ways in which teams solve problems.
- Understand the importance of loyalty to the employer.
- Learn ways to develop and demonstrate loyalty to an employer.
- Understand the importance and basis for interpersonal relations.
- Describe qualities for gaining trust, influence, and leadership.

Unit 5

- Realize the importance of the team concept in the workplace.
- Describe project team management.
- Explain the importance of integrity in building trust.
- Understand the characteristics of an effective team.
- Explain the ideas of collaboration and synergy.
- Understand the importance of self-control for leaders.
- Research techniques for resolving conflict.
- Differentiate between negative and positive criticism.
- Learn to make constructive criticism useful.
- Understand the source of negative criticism.

- Understand what employers expect from employees at each stage of their career.
- Interview an experienced employee.
- Understand that respect has to do with the worth of the individual.
- List ways that respect can be shown to others.
- Develop active listening skills.
- Eliminate distractions when listening.
- Explain how to communicate to the speaker that you are listening.
- Understand the importance of nonverbal communication.
- Understand the meaning of the character trait attentiveness.
- Apply active listening to various categories of work-related situations.
- Explain the three basic sets of ethical standards in a business.
- Understand the consequences of unethical behavior in the workplace.
- Understand how to identify organizational policies and procedures.
- Understand the purpose of an employee handbook and review the outline of a sample.
- Learn the purpose and review the contents of an acknowledgment of receipt agreement.

Unit 6

- Understand job search techniques.
- Know how to fill out an employment application.
- Write a letter requesting a job interview.
- Understand how to request a job interview.
- Define the research you should do regarding the company and position before an interview.
- Know how to prepare yourself for an interview.
- Understand how to answer interview questions.
- Describe proper conduct during an interview.
- Realize what questions are inappropriate and illegal.
- Describe appropriate ways to follow up on a job interview.
- Describe the assessment of a job interview.
- Practice interviewing by participating in a mock interview.
- Review your performance in a mock interview.
- Make and report on a visit to a job site.

Unit 7

- Understand the financial losses to business due to employee illnesses and injuries.
- Define the categories of health and safety issues.
- Understand that health and safety is the responsibility of every employee.
- Describe a safety attitude.
- Develop an attitude that safety is every employee’s responsibility.
- Describe different types of general health and safety training.
- Define the meaning of certification in a training setting.
- List types of specific industry safety training.
- Describe and categorize work-related environmental hazards.
- Describe factors that contribute to risk from work-related environmental hazards.

- Describe the risks associated with dangerous jobs.
- Understand the most dangerous activity associated with the workplace.
- Describe the different types of health and safety equipment.
- Explain the importance of properly using personal protection equipment (PPE).
- Explain the concept of ergonomics.
- Describe the types of long-term stress that lead to injury.
- Describe the risks associated with repetitive stress in the office.
- Describe techniques for combatting office-related MSDs.
- Describe the roles of government agencies in protecting the health and safety of workers.
- Explain why it is important to maintain health and wellness.
- Explain why employers are interested in their employees' health and wellness.
- Describe practices that can cause poor health.

Unit 8

- Explain the importance of basic math skills as applied to the workplace.
- Explain the use of a calculator and a spreadsheet in business.
- Describe the use of the metric system (SI) in industry.
- Describe digital measuring devices and their uses.
- Explain the importance of visualizing data to solve business problems.
- Interpreting charts and graphs to solve business problems.
- Learn principles of effective communication.
- Explain principles of oral communication.
- Explain the types of written communication.
- Describe good business writing style.
- Explain the components of professionalism in writing.
- Write business letters, e-mails, and memos.
- Describe the use of computer applications in communication.
- Explain how computer software of different types can work together to complete communications projects.
- Solve problems by initiative, analysis, and skill.
- Choose the correct communications technique in various situations.
- Solve the problems of a workplace scenario using initiative, analysis, and academic skills.

Unit 9

- Understand structure within a company.
- Plan a strategy for career advancement.
- Finding opportunities for advancement in a career field.
- Preparing yourself for advancement by building your brand.
- Describe principles that will help you advance in a career.
- Define entrepreneurship.
- Describe advantages and disadvantages of entrepreneurship.
- Describe the opportunities that exist in the marketplace.
- Know the skills and qualities needed for success as an entrepreneur.
- Interview a successful entrepreneur.
- Write an article about the business and its owner from your interview with an entrepreneur.

- Research the salaries for given positions.
- Research the level of education required for your target career and the number of years and cost required to attain it.
- Understand different types of income.
- Explain different types of deductions from your paycheck.
- Describe taxes tied directly to income.
- Understand the basics of financial planning, including saving and investing.
- Realize the importance and purpose of insurance.
- Understand the need for retirement planning.

Unit 10

- Review and summarize the rights and responsibilities of employers.
- Review and summarize the rights and responsibilities of employees.
- Understand the connections between the rights and responsibilities of employers and employees.
- Evaluate personal attitudes and work habits.
- Evaluate your interpersonal and team-building skills.
- Create a plan of action that will lead you to success in your chosen career field.
- Create a detailed report of your CTSO activities.
- Complete your electronic portfolio.

Psychology

Unit 1

- Identify the characteristics that define the science of psychology.
- Identify the goals and benefits of psychology.
- Outline the major historical developments in the history of psychology.
- Survey the major modern approaches to psychology.
- Differentiate between the concepts of theory and principle as applied to the study of psychology.
- Outline the basic methods of social scientific reasoning.
- Examine and apply the standards of the American Psychological Association (APA) regarding ethical decision-making.
- Compare and contrast human and nonhuman considerations.
- Define and apply measures of central tendency and dispersion to draw conclusions.
- Compare and contrast differential and inferential statistics.
- Survey career opportunities in the subfields of psychology.
- Describe the anatomy of the central and nervous systems.
- Describe the anatomy of the endocrine system.
- Describe the impact of the endocrine and nervous systems on behavior and human development.
- Compare and contrast the hemispheres of the brain.

Unit 2

- Examine how the body gathers and interprets sensations through the sense organs.
- Describe the methods by which the human mind transforms sensations into perceptions.
- Outline the stages of Jean Piaget's theory of cognitive development.
- Explain the factors of Jean Piaget's theory of cognitive development.
- Compare and contrast the sociocultural theory with Jean Piaget's theory of cognitive development.
- Outline the stages of Erik Erikson's theory of psychosocial development.
- Evaluate the role of nature and nurture in human development.
- Describe the influence of physical development on psychosocial development during childhood.
- Examine the role of family on an individual's development.
- Describe the influence of physical development on psychosocial development during adolescence.
- Explain the role of family on an individual's development.
- Describe the influence of physical development on psychosocial development during adulthood.
- Compare and contrast Sigmund Freud's, Carl Jung's, and Alfred Adler's views of the psychoanalytic theory of personality.
- Survey Sigmund Freud's defense mechanisms.
- Analyze the legacy of psychoanalysis.

- Compare and contrast the learning theories of behaviorism, humanism, and social cognitive theory.
- Compare and contrast the humanistic and trait theories of personality.

Unit 3

- Describe the principles of the theory of classical conditioning.
- Explain the role of classical conditioning in learning.
- Describe the principles of the theory of operant conditioning.
- Explain the role of operant conditioning in learning.
- Describe the principles of the theory of social learning.
- Explain the roles of learned helplessness, modeling, and behavior modification in learning.
- Identify the basic elements of thought.
- Discuss the capabilities and limitations of the three stages of memory.
- Describe the strengths and weaknesses of the information processing model.
- Analyze the psychological aspects of strategies and creativity used by humans to solve problems.
- Outline the stages of language development.
- Analyze influences on language development, including gender and culture.
- Survey the major theories of motivation.
- Identify the ways biological and cultural factors influence motivation.
- Survey the major theories of emotion.
- Identify the ways biological and cultural factors interact in emotion and motivation.
- Identify statistical concepts used in aptitude, achievement, and intelligence quotient tests.
- Compare and contrast personality assessment tools.

Unit 4

- Describe the states and levels of consciousness.
- Analyze the impact of technology on the study of sleep and dreams.
- Outline the stages of sleep.
- Identify the nature and importance of dreams.
- Survey artificially-induced altered states of consciousness.
- Identify the dangers of using psychoactive drugs.
- Describe the characteristics of abnormal behavior.
- Analyze the sociocultural stigma associated with abnormal behavior.
- Describe the origins, symptoms, behaviors, and treatments of autism, attention deficit hyperactivity disorder, and dissociative disorders.
- Describe the origins, symptoms, behaviors, and treatments of anxiety and somatoform disorders.
- Describe the origins, symptoms, behaviors, and treatments of mood disorders.
- Describe the origins, symptoms, behaviors, and treatments of psychotic and personality disorders.
- Survey historical and present methods of therapy.
- Evaluate the effectiveness of various therapies in treating abnormal behavior.
- Identify characteristics, diagnoses, and treatments for a specific mental disorder.
- Design a creative piece that raises awareness about mental illness.

Unit 5

- Analyze the positive and negative aspects of stress.
- Describe physiological, behavioral, and psychological responses to stress.
- Analyze strategies for dealing with stress.
- Evaluate the impact of technology on personal development and behavior.
- Analyze the relationship between attributions and behavior.
- Identify the factors in determining attraction.
- Outline the process of attitude formation.
- Describe the nature of bias and discrimination and identify how they form.
- Analyze the influence of others regarding conformity and obedience.
- Examine the origins and nature of altruism.
- Describe the origin and role of morality in society.
- Identify and analyze the intricacies of moral dilemmas.
- Describe the stages of Kohlberg's moral development.

Virtual Business

Unit 1

- Understand the origins of the internet.
- Define virtual business.
- List the three primary business structures.
- Identify the nature, history, and duties of a virtual business office.
- Determine particulars of communicating with clients locally and remotely.
- Set appropriate fees for services provided by a virtual business office.
- Comply with all applicable rules, laws, and regulations.
- List benefits afforded to virtual business clients.
- Examine global business considerations.

Unit 2

- Determine appropriate marketing of a virtual business office.
- Understand the different pricing structures of e-marketing.
- Define basic e-marketing terms.
- Know the basic strategies for effective online video advertising.
- Compare and contrast e-marketing vs. traditional marketing.
- Know the criteria used by companies to decide which marketing method is best.
- Know the steps necessary to start a virtual business.
- Describe the steps to successfully market a virtual business.
- List the basic components of a marketing plan.
- Define basic cloud service terms.
- Understand the various project management tools.
- Explore popular project management tool systems available to companies.
- Know the pros and cons of each project management tool system.
- Participate in leadership and career development activities.
- Develop a project plan.
- Initiate a project, including identifying resources needed for a project.
- Execute a project.
- Monitor and control a project, including coordinating work with team members.
- Close a project.

Unit 3

- Understand the purpose of business licenses.
- Know the primary types of business licenses.
- Determine local licensing requirements for a virtual business office.
- Understand the purpose of legal business structures.
- List the primary business legal forms.
- Describe the advantages and disadvantages of the various forms of legal structures of a virtual business office.
- Describe the primary legal issues related to running a virtual business office.
- Understand the key steps in protecting customer privacy.
- Research relevant tax issues.
- Know the tax rates of each legal business structure.
- Calculate corporate tax rates.

- Know the considerations and steps to setting up a virtual business office.
- Set up a virtual business office.
- Demonstrate professional standards and employability skills required for business and industry.
- Communicate effectively with others using oral and written skills.
- Demonstrate professionalism by conducting oneself in a manner appropriate for the profession and workplace.
- Conduct an interview with the manager or owner of a virtual business.

Unit 4

- Describe the nature of business records needed for a virtual business office.
- Know the primary business record types.
- Understand how business records are used internally to benefit businesses.
- Maintain business records to facilitate management.
- Maintain customer records.
- Define and understand appropriate bookkeeping terminology.
- Describe the various asset types.
- Understand the differences between accounts payable and accounts receivable.
- Prepare appropriate bookkeeping records, including basic balance sheets and income statements.
- Acquire information to analyze business decision-making.
- Monitor internal records for business information.
- Know how to interpret income statements and balance sheets.
- Understand the importance of balance sheet ratios.
- Apply fundamental bookkeeping skills for a virtual business office.
- Establish pricing, billing, and collections procedures.
- Know the basic pricing methods.
- Understand the supply-demand curve.
- Conduct an environmental scan to obtain business information and interpret statistical findings.
- Research pricing and billing practices of a virtual business.

Unit 5

- Assess personality characteristics to determine suitability for self-employment.
- Perform a Myers-Briggs Type Indicator® personality test and assess results.
- Take a personal inventory of skills, interests, strengths, and weaknesses.
- Complete and reflect on the MAPP™ career assessment test.
- Analyze personal inventory and determine appropriate virtual services to offer.
- Research various support resources for a virtual business.
- Know the basics of a business plan, including: executive summary, mission statement, long-and short-term goals, marketing plan, financial plan, and organizational plan.
- Prepare a business plan, including the following sections: executive summary, mission statement, long- and short-term goals, marketing plan, financial plan, and organizational plan.
- Create and design a website for a virtual business office.

Business Management

Unit 1

- Define the term management.
- Outline and compare management functions including planning, organizing, staffing, leading, and controlling.
- Describe the role of management.
- Summarize the history and evolution of management.
- Identify the role of each level in the management pyramid.
- Compare and contrast the characteristics of leaders and managers.
- Explain the roles of a leader.
- Describe the traits of an effective and virtuous leader.
- Summarize the different styles of leadership, including autocratic, democratic, and free rein.
- Analyze different styles of leadership and explain when each is appropriate.
- Identify the development steps of the career ladder.

Unit 2

- Survey best practices for business communication.
- Apply oral skills to create a business communication presentation.
- Compose a business communication document.
- Describe strategies for prioritizing one's time.
- Design a schedule for a typical day in the life of a manager.
- Describe ethical behavior in the workplace.
- Identify factors to consider when making ethical decisions.
- Define the role of managers regarding social responsibility.
- Explain how to initiate and implement socially responsible policies.
- Survey the general expectations for conduct in the workplace.
- Recall and analyze previous experience regarding conduct in organizational settings.
- Apply a productive work ethic by analyzing hypothetical work scenarios.
- Describe the role of laws and regulations regarding management.
- Survey fundamental laws and regulations regarding management.
- Predict the application of laws and responsibilities in case studies.

Unit 3

- Describe the principles involved in building an adaptive organization.
- Define the concepts and types of departmentalization.
- Compare and contrast methods of departmentalization.
- Outline the chain of command and demonstrate how it affects an organization.
- Identify the characteristics of line authority.
- Identify the characteristics of staff authority.
- Compare and contrast the different types of organizations, including line, line and staff, and matrix organizations.
- Describe the role of delegation as a function of management.

- Compare and contrast characteristics of centralized and decentralized organizations.
- Describe the concepts of teams and teamwork.
- Explain the span of control.
- Identify the ways external and internal environmental factors influence management.

Unit 4

- Define the term planning from a management perspective.
- Explain the rationale for proper planning.
- Identify and compare types of planning.
- Describe the steps of the management decision-making process.
- Apply the steps of the management decision-making process to a real-life scenario.
- Summarize the importance of managing for productivity and growth.
- Distinguish and identify competitive advantages.
- Explain the importance of strategic planning in determining organizational strategy.
- Identify and define innovative strategies.
- Defend the need to embrace change as part of strategic planning.
- Identify principles of global management
- Explain the operation of an organization in a global environment.

Unit 5

- Survey and outline the control process.
- Describe the primary control methods.
- Define quality control and explain why it is important.
- Describe the aspects of Total Quality Management.
- Outline the scope of service operations.
- Outline the quality-related characteristics for products.
- Outline and describe the quality-related characteristics for services.
- Create and administer a customer satisfaction survey as part of a leadership activity.
- Describe the standards set forth by the International Organization for Standardization.
- Explain the purpose and requirements that individuals and organizations must meet to earn the Malcolm Baldrige National Quality Award and the Deming Prize.
- Research and critique case studies of organizations that have won the Baldrige National Quality Award and Deming Price.
- Classify and analyze various manufacturing operations.
- Describe the role of inventory in the management context.
- Explain the importance of controlling inventory when managing organizational finances.
- Outline reasons and considerations for managing inventory.

Unit 6

- Describe the strategic importance of management information.
- Express the importance of management gathering and sharing information inside and outside the organization.
- Define the management communication process from a management perspective.
- Compare and contrast methods of formal and informal communication.
- Describe ways to improve communication within an organization.
- Explain how perceptions of employees influence organizational communication and production.
- Describe and analyze the communication process.
- Develop and participate in a leadership activity concerning communication.
- Devise ways to identify and address real or perceived inequities in the workplace.
- Define and describe methods of motivation.
- Compare and contrast extrinsic and intrinsic rewards.
- Describe implications of the expectancy theory regarding management.
- Explain how reward systems and goals affect motivation of employees.

Unit 7

- Survey the ethical issues connected with human resources.
- Examine major federal employment laws.
- Describe the implications of major federal employment laws on management practices.
- Survey methods of recruiting potential employees.
- Describe a selection process for new employees.
- Explain the need for and benefits of an organization developing a diverse workforce.
- Describe proven training methods for newly hired employees.
- Outline practical methods of professional development for current employees.
- Examine fictional contemporary cases addressing recruitment and diversity within organizations.
- Describe adverse impact.
- Define the characteristics of employment discrimination.
- Define the characteristics of sexual harassment in the workplace.
- Summarize proactive methods to prevent sexual harassment in the workplace.

Unit 8

- Examine the ways that organizations determine and offer employee compensation in a competitive environment.
- Identify the factors management should consider in planning to downsize.
- Describe the ethical and legal considerations when administering layoffs as part of downsizing.
- Analyze contemporary cases addressing downsizing using appropriate online resources.
- Describe the ethical and legal considerations when terminating an employee.
- Identify the cost of employee turnover.

- Identify ways to reduce the turnover rate.
- Explain the relationship between compensation, employee engagement, and turnover.
- Initiate, develop, execute, monitor, and close a plan to hire and compensate employees.

Unit 9

- Identify personal biases that may affect one's ability to work with others.
- Identify and practice skills that facilitate collaboration and teamwork.
- Analyze team-building skills applicable to situations with coworkers, supervisors, and subordinates.
- Apply team-building skills to leadership activities.
- Identify and apply effective interpersonal skills in scenarios involving coworkers, supervisors, and subordinates.
- Survey and evaluate opportunities for career development activities.
- Identify personal strengths and weaknesses as part of developing a career plan.
- Generate a plan to develop personal traits and behaviors to foster career advancement.

Unit 10

- Identify the characteristics and role of emotional intelligence in resolving conflict.
- Describe practical ways management can resolve conflict.
- Examine ways to conduct negotiations effectively and ethically.
- Identify management considerations when working with overseas operations.
- Identify management considerations when working at a nonprofit organization.
- Summarize the unionization process and its implications for management.
- Identify different forms of group decision-making.
- Compare and contrast the roles of team members.
- Analyze managerial challenges particular to entrepreneurs and identify solutions.
- Describe methods that managers use for personal organization.
- Identify tools and techniques for running effective and efficient meetings.

Principles of Business, Marketing, and Finance

Unit 1

- Gain a robust understanding of the overall basics of business.
- Know why studying business is so important.
- Understand the difference between a good and a service.
- Learn the three primary benefits of business for society.
- Know the four primary functions of business and why they are essential.
- Know the difference between business forms, types, and structures.
- Understand the difference between nonprofit and for profit business.
- Be able to define the three business types.
- Be able to describe the differences between the three business structures.
- Know the best business structure given the needs of the owners.
- Understand what the primary market forces are.
- Learn the importance of profit motive.
- Know how competition affects the price of goods.
- Know the general rules of supply and demand.
- Understand the supply/demand curve and the basic differences between goods and services.
- Understand the importance of the equilibrium on the supply/demand curve and what it represents.
- Be able to describe GDP and the United States' role as a service economy.
- Know the key similarities and differences between goods and services industries.
- Understand how companies can be both goods and services businesses.
- Understand the basic differences between accounting and finance.
- Be able to define and give examples of stakeholders in business.
- Know the importance of balance sheets.
- Understand the three components of balance sheets.
- Understand the use of the word net and its place in accounting.
- Know the balance sheet equation and what it represents.
- Be able to explain the difference between current and long-term assets.
- Know liquidity and which assets are more liquid than others.
- Know how income statements relate to annual and quarterly reporting.
- Be able to distinguish an income statement from a balance sheet.
- Be able to identify the seven primary components of an income statement.
- Understand depreciation and why it is used in reporting.
- Be able to describe the internal and external importance of income statements.

Unit 2

- Understand the basics of business ethics and how they differ from personal ethics.
- Know the factors that determine personal ethics.
- Understand the role and importance of a code of ethics in business.
- Understand what qualifies as proprietary information.
- Know what a business must consider in corporate social responsibility.
- Be able to describe and identify ethical dilemmas.
- Gain a thorough understanding of the role of the legal system in business.

- Be able to explain why business law exists.
- Know the importance of enforcing contract.
- Understand the hazards behind monopolies and how they are prevented.
- Know the importance of financial law.
- Understand the various consumer and workplace laws and how they are enforced.
- Understand the common misconceptions of good leadership.
- Understand how and why humility is the first quality of effective leadership.
- Know the general skills of good leadership.
- Be able to describe how developing others is an effective skill of good leadership.
- Be able to identify the differences between managers and leaders.
- Know the importance of common vision in leadership and company direction.
- Understand the common components of a vision statement.
- Be able to write your own quality vision statement.
- Understand what vision casting is and the three primary steps of successful vision casting.
- Gain an understanding of the human resource management department and the key roles it plays in a business.
- Be able to describe the five functions of human resources.
- Know the many ways employees can be compensated.
- Understand the various forms of benefits.
- Know the importance of legal compliance in today's workforce.
- Be able to explain how conversion and the division of labor contribute to the effective production of goods.
- Be able to list the typical phases found in the production process.
- Understand the basics of inventory management and procurement.
- Know the importance of quality control and its relation to consumer demands.

Unit 3

- Understand what economics is at a fundamental level.
- Understand the origins of economics and how the study grew over time.
- Know the place of international trade in economics.
- Be able to explain the role of imports and exports in international trade.
- Know the foundation on which economics stands and how it affects the prices of goods.
- Understand how supply and demand relate to scarcity.
- Know the factors of production and be able to give examples of each.
- Understand what entrepreneurship is and how it is important to economies.
- Know who is considered the father of economics and what he proposed about free markets.
- Understand the varying views of economic thought throughout history.
- Identify the roles of the Federal Reserve.
- Know what an economic system is.
- Know the three basic questions every economic system must answer.
- Understand the differences between comparative and competitive advantage.
- Know how economies decide which goods and services to produce.
- Fully understand and be able to distinguish among the four economic system types.
- Know the common downfalls of command economies.

- Understand that all economic systems are ultimately mixed.
- Articulate the benefits of the private enterprise system.
- Know the five basic principles that define a free market economy.
- Understand the law of incentives and how it is practiced in economies.
- Know the three reasons why command economies typically hinder economic growth.
- Define and describe the tragedy of the commons.
- Understand what microeconomics is and how it relates to scarcity of resources.
- Understand the difference between federal and state minimum wage.
- Know the law of monetary inflation and its impact on prices.
- Understand how monopolies are combated by perfect competition.
- Understand the scope of macroeconomics.
- Explain the three primary areas of research within macroeconomics.
- Understand the GDP equation and what it represents.
- Know why exports are good for an economy, and why imports are typically draining.
- Understand the three kinds of unemployment and which of the three are the most damaging to an economy.
- Know the difference between international free trade and international protectionism.
- Know the three forms of protectionist regulation.

Unit 4

- Understand archaic globalization and its context in economic history.
- Know the three ways globalization has positively impacted the world market.
- Understand extreme poverty and how it is often alleviated through globalization.
- Understand the measures of trade and how they are calculated.
- Know the components making up balance of payments.
- Understand the balance of payments equation.
- Understand the challenges of currency in a global marketplace.
- Know the impact of the foreign exchange rate on trade.
- Know the various market forces impacting currency value.
- Understand how floating currency is impacted by market forces.
- Understand how a weak currency can produce value for an economy.
- Know how buying power is a more accurate test of foreign exchange rates.
- Understand the importance and place for multinational enterprise.
- Know what distinguishes multinational enterprise from globalization.
- Know the key questions that need to be answered before becoming a multinational enterprise.
- Know the reasons why service-based MNEs have grown rapidly over the last few decades.
- Understand the difference between outsourcing and offshoring.
- Know the pros and cons of outsourcing versus offshoring.
- Know the qualities of an international entrepreneur.
- List the key steps followed in beginning the process of international trade.
- Understand the need for an effective distribution channel in international trade.
- Know the benefits of using an international marketing agency.
- Explain the importance of a sustainable infrastructure.
- Understand the three basic tips for being a successful international entrepreneur.

- Understand the importance of cultural understanding in international business.
- Know what culture is and its three variations.
- Describe the differences between corporate culture and the other forms of culture.
- Know the four primary categories of cultural variation.
- Understand the importance of working within cultural differences in international business.
- Understand the importance of social responsibility in international business.
- Know the primary categories of ethical standards in international trade.
- Understand the difficulty of defining individual liberty.
- Know the role of the World Trade Organization.
- Understand the challenges associated with establishing fair trade standards.
- Describe and analyze a case study of your choosing.

Unit 5

- Differentiate among the roles of government in business.
- Know how countries exist on a continuum of government regulation.
- Understand the U.S. constitutional position on government regulation.
- Know who the government is responsible for protecting in an economy.
- Explain the importance of contract law.
- Describe types of activities performed by governments in business.
- Know the three parties the government is empowered to protect in business.
- Identify various forms of intellectual property.
- Describe what the Constitution states about intellectual property protection.
- Know the three ways intellectual property is protected by the government.
- Identify the two primary responsibilities of the U.S. Department of Labor.
- Identify the two organizations in the government responsible for consumer protection.
- Ascertain the role of the legal system in business.
- Know why a legal system in business is both important and essential.
- Understand the importance of trust in the legal system.
- Explain how the United States legal system hinges upon rule of law.
- Know how rule of law applies to business.
- Understand the need for business law in functioning economies.
- List the benefits to businesses being legal entities.
- Know the several disciplines of business law.
- Describe the growth and importance of intellectual property law.
- Understand the challenges of intellectual property law.
- Understand the factors that led to the rise of organized labor.
- Know the styles of effective bargaining by labor unions.
- Place significant events in labor union history on a timeline.
- Identify the Supreme Court case that made organized labor legal in the United States.
- Know the reasons for the decline of unions in the 1970s and 1980s.
- Understand the differences between white-collar, blue-collar, and public sector jobs.
- Explain the role of organized labor in society.
- Know the various pros and cons of organized labor for an economy.
- Understand the three primary reasons organized labor exists.

Unit 6

- Define and understand basic industry terms of goods and services.
- Explain the free market system's impact on the access to abundant goods and services.
- Order and define the various phases of the service process.
- Understand the differences between goods and service businesses.
- Identify the various parties involved in the production of goods.
- List the three parties to whom merchandise can be sold.
- Describe the four primary manufacturing production strategies.
- Explain the key differences between marketing for goods and services.
- Define the challenges of pricing strategy for services.
- Know the considerations behind pricing goods versus services.
- Understand the differences of deliverability with goods and services.
- Identify the importance of relationships in goods and services strategy.
- Understand what retailing is at its fundamental level.
- List the parties involved in the retail supply chain.
- Justify a manufacturer's requirement to fix prices on certain items.
- Know the importance of retailing within the free market system.
- Identify the roles of retailers in the private enterprise system.
- List the retailer priorities toward customers.
- List and describe the two variables by which retailers get their form and function.
- Describe the seven types of retailers.
- Arrange the seven types of retailers based on size and market specificity.
- Identify and define the three forms of retailers.
- Understand the importance of wholesaling in the private enterprise system.
- Articulate the specific problem that wholesaling solves.
- Know the purpose of warehousing within the industry of wholesaling.
- List the three specializations of wholesalers.
- List and describe the four types of wholesalers.
- Discuss the needs each wholesaler type meet.
- Know the place of warehouses within each wholesaler type.
- Understand the impact product plays on warehouse machinery and systems.

Unit 7

- Explain the concept of productivity.
- Understand the importance of synergy in business and how it relates to profit.
- Know the two forms of productivity and how they are measured.
- Analyze the impact of specialization and division of labor on productivity.
- Understand the importance of specialization of labor in manufacturing.
- Know the difference between economies of scale and the law of diminishing marginal returns.
- Identify different types of financial exchanges.
- Evaluate different types of financial exchanges.
- Understand the difference between debit and credit.
- Identify various types of currency.
- List various functions of money.
- Understand traditional and modern forms of currency.
- Understand the purpose of credit.

- Understand the importance of credit.
- Know how credit can hurt or harm you.
- Become an educated consumer when it comes to using credit.
- Create a personal credit usage plan.
- Explain legal responsibilities associated with financial exchanges.
- Explore ethical frameworks for responsible financial decision-making.

Unit 8

- Calculate net and gross pay.
- Understand the importance of effectively managing personal finances.
- Calculate different forms of salary and withholdings.
- Explain the importance of providing accurate information.
- List the three primary reasons accuracy is essential in personal finance.
- Understand the consequences of inaccurate or fraudulent reporting.
- Know the two purposes of income tax returns.
- Prepare an individual income tax return.
- Understand the line items on W-2 tax documents.
- List the various Form 1040 types.
- Simulate opening and maintaining various types of bank accounts.
- Compare the advantages and disadvantages of different types of banking services.
- Understand how banks function and how they make money.
- Consider the various ways to save money.
- Reconcile bank statements.
- Compare personal and electronic bank statements.
- Examine investment growth by developing a personal investment plan.
- Understand the importance of early investing.
- List and explain various investment options.
- Calculate return on investment.

Unit 9

- Define marketing.
- Explain the marketing concept.
- List the three core elements of the marketing concept.
- Know the four Ps of marketing.
- Understand how marketing is related to other functions of business.
- Describe marketing functions and related activities.
- Know the four functions of business.
- List the seven functions of marketing.
- Explain the concept of market and market identification.
- Identify market segments.
- Explain the difference in market segmentation and mass marketing.
- Understand the three primary forms of market research.
- Define and explain the importance of target markets.
- Identify a target market for a product or service using market segmentation.
- Define each component of the marketing mix.
- Identify examples of an effective marketing mix.

- Create an effective marketing mix for a product or service.
- Explain the role of participation as a key element of marketing.
- Explain the concept of marketing strategies.

Unit 10

- Determine individual talents, abilities, and skills.
- List the three learning styles, and determine at which one you excel.
- Discover your skills through an online skills test.
- Conduct an in-depth skills assessment.
- Develop an individual career plan.
- Communicate effectively with others using oral and written skills.
- Understand the differences between informal and formal business writing.
- Know how to draft professional e-mails.
- Demonstrate collaboration skills through teamwork.
- Demonstrate time-management skills by prioritizing tasks, following schedules, and tending to goal-relevant activities in a way that uses time wisely and optimizes efficiency and results.
- List the five teamwork virtues.
- List and describe the three components of digital citizenship.
- Understand the difficulties associated with information on the internet.
- Know the various components of digital responsibility.
- Communicate effectively with others using oral and written skills.
- Demonstrate professionalism by conducting oneself in a manner appropriate for the profession and workplace.
- Demonstrate a positive, productive work ethic by performing assigned tasks as directed.

Entrepreneurship

Unit 1

- Describe the nature of a business.
- Understand basic business terms.
- List the marketplace needs that business satisfies.
- Explain how a business's products and services meet the needs of the market.
- List the specific consumers, organizations, or businesses that a company targets or will target.
- Understand target marketing and specific marketing segments.
- Explain the competitive advantages that make a business successful.
- Clarify the terms entrepreneurship and entrepreneur.
- Define the term small business.
- Analyze the advantages and disadvantages of entrepreneurship.
- Understand some of the challenges present in entrepreneurship.
- Present suggestions for challenges found in entrepreneurship.
- Categorize business risks as being human, natural, or economic.
- Classify business risks as being pure or speculative, controllable or uncontrollable, or insurable or uninsurable.
- Explain security precautions and health, safety, and worker welfare regulations.
- Analyze examples of business risks, and recommend and defend risk management strategies.

Unit 2

- Describe the nature of a business.
- Understand basic business terms.
- List the marketplace needs that business satisfies.
- Explain how a business's products and services meet the needs of the market.
- List the specific consumers, organizations, or businesses that a company targets or will target.
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- Categorize business risks as being human, natural, or economic.
- Classify business risks as being pure or speculative, controllable or uncontrollable, or insurable or uninsurable.
- Explain security precautions and health, safety, and worker welfare regulations.
- Analyze examples of business risks, and recommend and defend risk management strategies.

Unit 3

- Explain and demonstrate how to meet the needs of a growing organization.
- Describe the role of operations and organization in a growing business.
- Understand the three components of business and how they impact growth.
- Create an organizational chart that defines the structure of a company.
- Define and understand the nature of organizational structure.
- Know the four types of organizational structures.
- Determine the financial plan, including financial requirements and sources of financing.
- Explain investment and financial resources to achieve business goals and objectives.
- List the various components of a financial plan.
- Understand why financial plans are pivotal to the success of a venture.
- Explain the idea of growth strategy, including horizontal and vertical growth strategies.
- Research your own integration strategy.
- Explain the idea of an exit strategy.
- List the five primary exit strategies available to companies.

Unit 4

- Explain and define basic accounting functions and terms.
- Identify liabilities and types of liabilities.
- Calculate shareholders' equity (net worth).
- Evaluate a balance sheet.
- Understand the balance sheet equation.
- Analyze profit and loss statements.
- Evaluate revenues and types of revenues.
- Determine expenses and types of expenses.
- Analyze alternative accounting and internal accounting controls.
- Discuss the importance of budgeting and cash flow.
- Use common accounting forms to demonstrate an understanding of their functions and results.
- Analyze the impact of specialization and division of labor on productivity.
- Explain the impact of the law of diminishing returns.
- Create projected financial statements.

Unit 5

- Explain the nature and scope of product planning.
- Identify stages of the product life cycle for business products.
- Demonstrate the process of selecting suppliers and sources.
- Analyze and discuss the selection of goods and services based on operational needs.
- Identify types of consumer credit.
- Recommend types of consumer credit a business might offer.
- Explain the risks and benefits for entrepreneurs when accepting and extending credit.

- Describe how credit affects profit and negotiated price.

Unit 6

- Define and explore common market penetration strategies.
- Explain how market penetration strategies contribute to successful marketing.
- Analyze the importance of careful market evaluation.
- Apply evaluation strategies to determine the effectiveness of market penetration strategies.
- Apply evaluation strategies to determine promotional campaign effectiveness.
- Understand the marketing mix and the promotional mix's place within it.
- Illustrate the concept of promotional mix.
- List the elements of the promotional mix.
- Explore the various kinds of promotional materials.
- Analyze the purpose of promotional materials.
- Use appropriate technology to create promotional materials.
- Describe the development of a sales force.
- Apply evaluation strategies to determine the effectiveness of sales activities.
- Define the purposes of a marketing plan.
- Explore the various components of a marketing plan.

Unit 7

- Understand the basics of distribution.
- Know the difference between B2C and B2B business.
- List the primary and secondary distribution strategies.
- Explain how distribution can add value to goods, services, and intellectual property.
- List the common supply chain stages.
- Define effective channels of distribution strategies.
- Determine costs associated with distribution.
- List the common marketing research methods.
- Identify components of the marketing research process.
- Identify benefits and limitations of marketing research.
- Explain the various uses of marketing research.
- Identify sources of primary and secondary data.
- Understand the SWOT analysis process.
- Conduct a SWOT analysis.
- Know the elements explored in a market analysis.
- Use appropriate technology to obtain marketing information.
- Conduct market analysis.

Unit 8

- Identify the legal issues affecting businesses.
- Investigate the impact of the legal issues.
- Identify regulatory requirements affecting a business.
- Identify the basic torts relating to business enterprises.

- Distinguish the difference between torts and criminal acts.
- Describe the nature of legally binding contracts.
- Describe the nature of legal procedure.
- List the key steps in the legal process.
- Discuss the nature of debtor-creditor relationships.
- Explain the nature of agency relationships.
- Discuss the nature of environmental law.
- Know how startups can seek federal and local environmental compliance.
- Identify the role of administrative law.
- Know how organizations can prevent or fight overregulation.

Unit 9

- Understand the importance of a business's responsibility to its employees.
- Understand ethical decisions made in employment relationships.
- Know general workplace regulations.
- Understand the importance of a business's responsibility to shareholders and customers.
- Know the list of common social and legal consumer rights.
- Understand the importance of a business's responsibility to the community and environment.
- Know the importance of community impact.
- Explore ethical considerations in controlling client and employee information.
- List the most practical steps for securing customer, employee, and business data.
- Understand human resource management's place in business.
- Know what makes human resource management effective.
- List the six primary functions of human resources.
- Explore a true and relevant business case study.
- Demonstrate integrity by choosing the ethical course of action within a case study.

Unit 10

- Evaluate the steps involved with starting a small business.
- Demonstrate collaboration skills through teamwork.
- Communicate effectively with others using speaking, listening, and writing skills.
- Understand the purpose of legal business structures.
- List the primary legal business structures.
- Understand the importance of small business.
- Identify and analyze the four functions of a small business.
- Demonstrate professional standards and employability skills.
- Demonstrate professionalism by conducting oneself in a manner appropriate for the profession and workplace.
- Demonstrate time management skills, task prioritization, schedules, and the ability to complete goal-relevant activities.
- Visit a local business and franchise to investigate business opportunities.
- Evaluate issues involved with starting, taking over, or expanding an existing small business.

- Identify the importance of a well-written business plan.
- Identify the need for and the characteristics of a well-orchestrated business plan.
- Research business plan outlines, resources, and templates.
- Create and present a well-orchestrated business plan and critically explain the contents.
- Demonstrate leadership skills by exploring career and technical student organizations.

Medical Microbiology

Unit 1

- Understand the basic definition and purpose of medical microbiology.
- Understand the early history of microbiology and its development over time.
- Identify important scientists who contributed to the field of microbiology.
- Identify the major contributors to the field of medical microbiology.
- Identify what a pathogen is and the germ theory of disease.
- Describe matter, atoms, and elements.
- Understand the purpose of a chemical bond in the context of microbiology.
- Explain the purpose of a chemical reaction and its role in microbiology.
- Define a chemical solution and the different types of solutions.
- Identify and contrast the characteristics for an acid, base, and salt.
- Characterize organic compounds and their importance in microbiology.
- Distinguish between the four different types of macromolecules.
- Understand the roles of macromolecules in living things, such as microorganisms.
- Identify examples of different macromolecules and their monomer subunits.
- Distinguish between a compound light microscope and an electron microscope.
- Describe the different types of culture media to use.
- Learn how to streak a plate to grow a colony of microorganisms.
- Learn how to perform a simple stain.
- Understand what an aseptic technique is and why it is important to microbiology.
- Identify the different types of laboratory safety practices.

Unit 2

- Understand the history of the Linnaeus system and why it was developed.
- Identify the key components of the Linnaeus system.
- Explore the differences between the domain and kingdom.
- Learn about binomial nomenclature and how it is used.
- Differentiate between a common and scientific name.
- Identify what a prokaryotic cell is and the different types.
- Identify the structure and function of eukaryotes.
- Describe what makes a eukaryote different from a prokaryote.
- Identify the structure and function of plasmids and their role in medical microbiology.
- Describe the structure of DNA and its difference in use between prokaryotes and eukaryotes.
- Distinguish between sexual and asexual reproduction.
- Describe the goals of mitosis and meiosis.
- Describe the different ways bacteria, fungi, protists, and viruses reproduce.
- Identify the different factors that affect the population control of a microorganism.
- Describe the differences between catabolism and anabolism.
- Explain the metabolic pathways: aerobic respiration, fermentation, photosynthesis, and chemosynthesis.

Unit 3

- Explore the different features of Domain Archaea vs. Bacteria microbes.
- Describe basic external features of bacteria.
- Describe the three basic types of bacterial shapes.
- Explain the importance of bacterial forms and their relationship to the pathogenesis of bacteria.
- Understand the importance of flagellum and glycocalyx in bacterial structures.
- Define the cell envelope and its purpose.
- Describe the structure and function of a bacterial cell wall.
- Distinguish between isotonic, hypertonic, and hypotonic solutions.
- Explain the importance of peptidoglycan and describe its structure.
- Define nonpathogenic bacteria and its role in the environment.
- Identify the different places where nonpathogenic bacteria exist.
- Describe human gut flora and its functions.
- Explain microbial ecology and its relationship to nonpathogenic bacteria.
- Define homeostasis in living organisms.
- Describe how pH and temperature can affect microbial growth.
- Define infection and its relationship with contamination.
- List the six components for a chain of infection in the correct order.
- Identify the different ways an infection can spread.
- Describe the structure and components of Gram-positive and Gram-negative bacterial cells.
- Explain the process for performing a Gram stain.
- Explain the purpose and importance of differential staining.
- Describe the procedures for simple, acid-fast, and endospore staining.
- Identify the useful application of differential stains in medical microbiology.

Unit 4

- Describe and explain what Kingdom Protista is.
- Contrast unique features characteristic of algae and protozoa.
- Describe the characteristics common to all protists.
- Explain the reason for classifying protozoa in different taxonomic schemes within Kingdom Protista.
- Identify the four groups of protozoa that cause infections in humans.
- Compare and contrast the unique features of the four groups of protozoa.
- Describe the characteristics of algae.
- Identify the different types of pigments found in algae.
- Explain the characteristics of slime molds and downy mildews.
- Describe and explain fungi.
- State the four different groups used to classify fungi.
- Explain the characteristics for each fungi group.
- Identify the different spores produced from each fungal group.
- Describe why Deuteromycota is a unique fungal group from the other three types.
- Explain the importance of a microbial ecologist in science.
- Define the ecology of fungi and protists.
- Identify the different diseases caused by protists and fungi.
- Compare and contrast helminths and arthropods.

- State examples of human diseases that arise from either helminths or arthropods.

Unit 5

- Describe how viruses are similar and different from living things.
- Identify and describe a bacteriophage.
- Describe the different structural characteristics of a virus.
- State the four major viral shapes.
- State the steps used by an animal virus to gain entry into a host cell.
- Explain the process of the lytic cycle and lysogenic cycle and contrast between them.
- Describe the different methods used to culture viruses.
- Define latent and persistent infections and contrast between them.
- Understand the scope of viral disease.
- Explain how viral infections can contribute to the development of cancer.
- Provide examples of latent infections.
- Explain the difference between hepatitis A, B, and C.
- Compare and contrast chickenpox and shingles.
- Explain the difference between HIV and AIDS.
- Outline the stages of the HIV life cycle in humans.
- Highlight the consequences, preventative measures, and treatments for HIV/AIDS.
- Describe the differences between viroids and prions.
- State how viruses are able to infect plants.

Unit 6

- Define microbial growth.
- Identify the physical requirements for microbial growth and describe their importance.
- Contrast how microbes grow in anaerobic and aerobic conditions.
- Explain the importance of trace elements and other nutrients for growth.
- Describe the importance of collecting clinical samples.
- Explain what is a pure culture and its significance in the clinical setting.
- Compare the different methods used to obtain a pure culture.
- Explain the importance of culture media in relation to microbial growth.
- Identify the different types of culture media.
- Describe examples for each type of culture media.
- Define a growth curve and its purpose.
- Compare a logistic and exponential growth curve.
- Explain generation time and how it is used to describe growth rate.
- Describe the different phases of microbial growth.
- Indicate the position of the phases on a growth curve.
- Define microbial death phase rate.
- Describe and compare the physical means to control microbial growth.
- Contrast antiseptic, disinfection, sterilization, and sanitation.
- Describe the chemical methods of microbial control.

Unit 7

- Describe the characteristics of an infectious disease.
- Explain the history of infectious disease.
- Review the types of pathogens.
- Describe when infections do not occur.
- Outline the five periods of an infectious disease.
- Explain the first pathogen that was identified.
- Describe Koch's postulates.
- Describe the exception to Koch's postulates.
- Describe the steps of pathogenesis.
- Explain how transmission of a disease occurs.
- Contrast symptoms vs. signs of an infectious disease.
- Describe the differences between acute and chronic infections.
- Contrast primary vs. secondary infections.
- Explain how latent infections occur.
- Explain the purpose of the immune system in the body.
- Identify the different parts that make up the immune system.
- Describe how the body defends itself against pathogen invasion.
- Contrast the physical and chemical barriers to pathogens.
- Define innate immunity and explain its role in mounting a defense.
- Describe the cells that are part of innate immunity.
- Outline the steps that occur during an inflammatory response.
- Explain what acquired immunity is and provide an example.
- Contrast the differences between innate and acquired immunity.
- Outline how the lymphatic system aids in delivering an immune response.
- Contrast between passive and active immunity.
- Explain the purpose of vaccines in combating infections.
- Describe the different types of vaccines.
- Outline how to keep the immune system healthy.

Unit 8

- Describe what an antimicrobial is.
- Explain an antimicrobial's purpose in medical microbiology.
- Outline the principles of using antimicrobial drugs.
- Explain the use of antimicrobials in ancient times.
- Describe the early work of designing antimicrobial drugs.
- Identify the purpose of selective toxicity in antimicrobial drug design.
- Explore the characteristics of an ideal antimicrobial agent.
- Compare and contrast five mechanisms of action by antimicrobial drugs.
- Explain how scientists classify antimicrobial drugs.
- Compare and contrast mechanisms of action of antimicrobial drugs.
- Define antimicrobial resistance.
- Explain how patients can stop resistance.
- Describe superbugs and how they come into being.
- Describe how to prevent microbes from becoming superbugs.
- Explain the importance of sensitivity reports.
- Provide an example of how governmental agencies work to enforce antimicrobial drug safety.

- Outline the major classes of antibacterial drugs.
- Compare and contrast each class of antibacterial drug.
- Provide examples of different antibacterial drugs and why they are prescribed.

Unit 9

- Describe the connection between public health and microbiology.
- Contrast the different forms of prevention.
- List the different ways to prevent microbial spread.
- Define epidemiology as it relates to microbiology.
- Explain the difference between incidence and prevalence.
- Describe how infectious diseases in populations are characterized.
- Describe the chain of infection.
- Contrast each point along the chain of infection.
- Explain the different types of reservoirs.
- Outline how microbes are transmitted from person to person.
- Describe the environment's role in spreading infectious disease.
- Describe how microbes spread disease in the soil.
- List common soil microbial pathogens.
- Explain airborne transmission.
- Explain water contamination.
- Describe different waterborne illnesses.
- Explain what causes food to spoil and list ways to reduce the occurrence of foodborne illnesses.
- Describe the food production chain.
- Define a healthcare-associated infection.
- List examples of common healthcare infections.
- Explain the importance of preventing healthcare-associated infections.
- Describe the difference between standard and transmission-based precautions.
- List examples of different personal protective equipment.
- Explain the purpose of public health agencies.
- Contrast global and federal agencies and how they relate to microbiology.

Unit 10

- Define biotechnology.
- Explain biotechnology's importance in human health.
- Describe the connection between microbiology and biotechnology.
- Define DNA technology.
- Explain what genetically modified organisms are.
- Describe the process of genetic cloning.
- Define genetic engineering.
- Describe the different applications of recombinant DNA technology.
- Explain the process of gel electrophoresis.
- Define bioterrorism and biological warfare.
- Describe the four common pathogens used in bioterrorism.
- Contrast the different effects humans experience from bioterrorist threats.
- Describe the applications of microbes in the treatment of diseases.
- Explain how viruses and bacteria are used in cancer prevention and control.

- Describe how viruses are used in gene therapy.
- Describe code of ethics in microbiology.
- Explain the safety concerns of recombinant DNA technology.
- Discuss ethical concerns of biotechnology.
- Contrast emerging from reemerging infectious diseases.
- Describe the impact of emerging and reemerging diseases on public health.
- Contrast the differences between biomass and bioremediation.
- Describe the many uses for microbes as an environmental benefit.
- Explain how microbes are used in food technology and for the production of chemicals.

Anatomy and Physiology

Unit 1

- Identify the differences and similarities between anatomy and physiology.
- Define disease.
- Explain the role of technology in anatomy and physiology.
- Plan and implement different types of investigations.
- Explain and identify the different types of variables.
- Analyze, evaluate, and make inferences from data.
- Identify the difference between scientific theories and hypotheses.
- Analyze results in journals, articles, and marketing materials for conclusions.
- Use anatomical terms to describe locations of the body.
- Define medical terminology by decoding the root words, prefixes, and suffixes.
- Differentiate types of radiological technology and their uses.
- Identify the factors and processes needed for survival.
- Identify the types of diseases and analyze disease transmission.
- Analyze how the body protects itself from disease.
- Analyze and describe the mechanisms of homeostasis.
- Determine the consequences of homeostasis failure.
- Identify and describe the structure and function of organelles.
- Describe cell division and reproduction.
- Describe cell aging and malfunctions.
- Describe the structure and function of tissues.
- Describe the tissue repair process.

Unit 2

- Identify and describe the anatomy of the integumentary system.
- Differentiate between types of skin coloring.
- Describe the function of the integumentary system.
- Identify homeostatic relationships between the integumentary system and other body systems.
- Identify effects of environmental factors on the integumentary system.
- Evaluate the cause and effect of disease and trauma on the integumentary system.
- Describe characteristics of the aging process on the integumentary system.
- Identify structures and functions of the skeletal system.
- Analyze the relationships between structures and functions of the skeletal system.
- Describe the structure of the bones of the axial skeleton.
- Relate the structure of the bones of the axial skeleton to the function.
- Describe the anatomy of the appendicular skeleton.
- Analyze how this structure contributes to function of the bones.
- Describe the process of bone development.
- Describe changes that occur in bone from birth until old age.
- Describe how the bones maintain homeostasis.
- Identify the homeostatic relationships of the skeletal system.
- Evaluate the cause and effect of disease on the skeletal system.

- Describe technology used in the diagnosis and treatment of the skeletal system.

Unit 3

- Identify the types of muscle tissue.
- Identify the functions of the muscular system.
- Describe the structure of smooth muscle.
- Identify the special features of smooth muscles.
- Differentiate the different types of smooth muscle.
- Describe the structure of skeletal muscle cells.
- Explain how skeletal muscles contract.
- Identify how skeletal muscles get energy to contract.
- Analyze the importance and effects of exercise on skeletal muscles.
- Identify major muscles of the body.
- Describe the location of skeletal muscles and their role in movement.
- Explain the role of joints in movement.
- Describe the location of joints.
- Describe how different types of joints contribute to movement.
- Describe the type of muscles.
- Explain the mechanics of muscles and movement.
- Describe and identify types of movements.
- Describe the development of muscles.
- Explain how muscles change over time.
- Describe diseases and conditions that affect the muscular system.
- Identify treatments for diseases and conditions of the muscular system.
- Identify technology used in the diagnosis and treatment.
- Explain how the muscular system maintains balance.
- Explain the homeostatic relationships of the muscular system.

Unit 4

- Identify the functions of the nervous system.
- Explain the divisions of the nervous system.
- Identify the structures of the nervous system.
- Describe the structure of neurons.
- Explain the function of neurons.
- Identify neurotransmitters and their role in the nervous system.
- Explain principles of electricity relating to the nervous system.
- Identify the role of ion channels.
- Differentiate between types of membrane potentials.
- Explain how the nervous system transmits a signal.
- Identify the structures of the central nervous system.
- Explain the functions of the central nervous system.
- Describe the structure of the peripheral nervous system.
- Identify the functions of the peripheral nervous system.
- Describe the action of a reflex arc.
- Identify the structures of the autonomic nervous system.
- Describe the functions of the autonomic nervous system.

- Describe the development, structures, and divisions of the nervous system.
- Identify changes in the nervous system due to age.
- Identify diseases of the nervous system.
- Describe the homeostatic relationships of the nervous system.
- Describe the effects of brain cancer.
- Explain uses of neurotechnology.

Unit 5

- Identify the special senses and describe the anatomy of the eyes and ears.
- Explain the mechanics of vision and hearing.
- Explain how smell and taste work.
- Describe how the senses develop and describe the effects of aging on the special senses.
- Describe diseases that can affect the eyes and ears.
- Describe technology used in the treatment of the diseases for the eyes and ears.
- Define and identify hormones and glands in the body.
- Compare the nervous and endocrine systems.
- Describe the structure of hormones.
- Explain the mechanics of how hormones are released.
- Explain the function of the endocrine organs.
- Identify the hormones associated with endocrine organs.
- Identify the stages of development of the endocrine system.
- Identify changes in the endocrine system associated with aging.
- Identify diseases and conditions of the endocrine system.
- Evaluate the cause and effect of diseases and trauma on the endocrine system.
- Identify the effects of environmental factors on the endocrine system and how to minimize those effects.
- Analyze the effects endocrine malfunctions have on energy.
- Identify the mechanisms used to maintain homeostasis.
- Explain homeostatic relationships of the endocrine system.
- Describe technology used in the treatment of the endocrine system.

Unit 6

- Identify the structure and function of blood.
- Describe the structure and location of blood vessels in the body.
- Explain how blood vessels transport blood and nutrients.
- Describe the role and effects of blood pressure.
- Describe the anatomy of the heart.
- Identify effects that alter heart rate.
- Describe developmental aspects of the cardiovascular system.
- Describe changes that occur with aging of the cardiovascular system.
- Identify homeostatic relationships of the cardiovascular system.
- Identify diseases of the cardiovascular system.
- Describe signs, symptoms, and treatments for conditions of the cardiovascular system.
- Identify how technology is used for diagnosis and treatment of the cardiovascular system.

- Describe the anatomy of the respiratory system.
- Explain the mechanics of breathing.
- Describe how gas exchange occurs in the respiratory system.
- Explain the basic properties of gas.
- Explain how gas exchange occurs.
- Explain how gas is transported in the body.
- Explain conditions of the upper and lower respiratory system.
- Identify homeostatic relationships with the respiratory system.

Unit 7

- Identify the structures and functions of the digestive system.
- Identify the anatomy of the upper digestive tract.
- Describe the anatomy of the organs of the lower digestive tract.
- Describe the digestive process that occurs in the digestive organs.
- Explain how substances are absorbed into the bloodstream.
- Describe the role of nutrients in the body.
- Identify sources for nutrients.
- Differentiate between anabolic and metabolic reactions.
- Describe metabolic processes that occur in the human body.
- Describe the role of energy in the digestive system.
- Explain how the body regulates temperature.
- Identify homeostatic relationships for the digestive system and the other systems.
- Describe the development of the digestive system.
- Identify defects in digestive system development.
- Describe conditions of the digestive system.
- Identify transplant procedures performed in the digestive system.
- Describe advanced technology used to treat obesity.

Unit 8

- Describe the anatomy of the urinary system.
- Describe the anatomy of the kidney.
- Describe the functions of the kidneys.
- Explain each process that occurs in the formation of urine.
- Identify the effects of kidneys on urine concentration and volume.
- Describe the anatomy of the organs in the urinary system.
- Identify the processes of urine transport, storage, and elimination.
- Describe the location and composition of fluid in the body.
- Identify the effects of fluid movement.
- Identify how the body maintains water balance.
- Identify electrolytes in the body.
- Describe how electrolytes are balanced in the urinary system.
- Define pH, and analyze pH values.
- Identify the mechanisms that keep acid-base balance in the body.
- Describe the development and aging of the urinary system.
- Explain age-related conditions that alter urinary function.
- Describe imbalances in the urinary system.
- Identify diseases and conditions that affect the urinary system.

- Describe treatments used for renal conditions.

Unit 9

- Identify the structures of the lymphatic system.
- Describe the function of the lymphatic system.
- Describe the development and aging of the lymphatic system.
- Identify diseases that affect the lymphatic system.
- Describe the homeostatic relationships between the lymphatic system and other body systems.
- Describe the immune system.
- Identify the types of immunity.
- Define innate defenses.
- Explain how innate immunity protects the body.
- Identify antigens and cells involved in adaptive immunity.
- Differentiate between humoral and cell-mediated immunity.
- Describe the role of antibodies in humoral immunity.
- Describe the function of cells in cell-mediated immunity.
- Describe the development of the immune system.
- Describe how aging affects the immune system.
- Identify conditions of the immune system.
- Describe how the immune system maintains homeostasis.
- Identify what occurs when the immune system is not balanced.
- Identify homeostatic relationships of the immune system.
- Identify and describe the conditions that affect the immune system.

Unit 10

- Identify the functions of the reproductive systems.
- Describe the anatomy of the male reproductive system.
- Describe the physiological processes and hormones of the male reproductive system.
- Explain how sperm is formed.
- Describe the anatomy of the female reproductive system.
- Describe the process of oogenesis.
- Identify the effects of hormones.
- Describe the steps of the uterine and ovarian cycle.
- Explain the fertilization process.
- Describe events that occur in embryonic development.
- Describe the stages of early embryonic development.
- Describe the changes of fetal development.
- Explain the changes that occur during pregnancy.
- Identify the stages of birth.
- Explain the effects after birth and lactation.
- Describe the development of reproductive organs.
- Explain the changes that occur in puberty and menopause.
- Describe conditions that affect the male and female reproductive systems.
- Identify sexually transmitted infections.
- Identify causes and treatments for infertility.

- Explain technology used for infertility.
- Explain homeostatic relationships of the reproductive system.

Principles of Health Science

Unit 1

- Describe the need for and purpose of healthcare.
- Recognize aspects of health science and the healthcare industry.
- Describe the medicine and healthcare of ancient civilizations, including the Greeks, Hebrews, and Romans.
- Describe medical practices of the Middle Ages and Renaissance.
- Describe medicine in the Middle Ages and Renaissance.
- Recount the history of medical breakthroughs that led to modern medical practice.
- Understand issues facing medical science today.
- Explain and report on the life and major accomplishments of a medical scientist.
- Describe public and private healthcare programs.
- Understand the services managed by local, state, and federal governments.
- Understand and explain the purpose and forms of health insurance.
- Describe the meaning of terms such as deductible, limits, and out-of-pocket expenses.
- Describe other types of insurance that involve health issues, such as disability and life insurance.

Unit 2

- Understand the career clusters and the place of the Health Science cluster in the six basic career areas.
- Explore the Health Science career cluster.
- Explain the meaning of a career pathway.
- Describe the various career pathways within the Health Science career cluster.
- Understand the use of electronic technology in healthcare.
- Describe careers in information technology (IT) within the healthcare industry.
- Understand how the career pathways fit together to provide healthcare.
- Understand the connection between education and various career levels.
- Understand the importance of college in the career path.
- Describe the type of training that might follow postgraduate degrees in the medical profession.
- Understand that medical terms are formed from combinations of roots and affixes.
- Understand that acronyms and abbreviations are used in medical terminology.

Unit 3

- Understand the personal traits needed to work in the healthcare industry.
- Understand the importance of character.
- Evaluate character traits in your own life.
- Establish priorities so that you can complete all assigned tasks and meet deadlines.
- Understand the importance of setting goals.
- Create a schedule that reflects your priorities.

- Differentiate between privacy and confidentiality.
- Describe the necessity of protecting privacy.
- Explain the circumstances under which information must be kept confidential.
- Explain why a confidence might need to be broken.
- Recognize and apply leadership traits and skills.
- Understand the importance of and basis for interpersonal relations.
- Describe qualities for gaining trust, influence, and leadership.
- Describe what it means to be a team player.
- Define your team.
- Consider ways to become a valuable team member.
- Recount ways in which teams solve problems.
- Describe ways to view conflict.
- Know techniques for resolving conflicts.
- Evaluate scenarios in which techniques are used to resolve conflicts.

Unit 4

- Identify the basic forms of communication.
- Analyze the importance of communication skills to maintaining healthy relationships.
- Understand the importance of effective communication in dealing with coworkers, other medical professionals, and patients.
- Describe the difference between verbal and nonverbal communication.
- Explain the meaning and importance of body language.
- Understand the importance of recognizing cultural variations in body language.
- Identify ways in which electronics can enhance communications within a healthcare setting.
- Recount the potential hazards of using communications electronics.
- Describe the rules for electronics use established by medical facilities and the importance of adhering to them.
- Understand the importance of meetings to communication between team members.
- Explain how participating in meetings strengthens team communication.
- Demonstrate the ability to effectively conduct a meeting.
- Understand the importance of parliamentary procedure in formal meetings.
- Review the basics of Robert's Rules of Order.
- Identify diverse cultural influences that have impacted contemporary aspects of healthcare delivery.
- Demonstrate an understanding of diversity and cultural practices influencing contemporary aspects of healthcare.
- Research and compare practices used by various cultures and societies to solve problems related to health.
- Demonstrate effective communication skills for responding to the needs of individuals in a diverse society.

Unit 5

- Understand the systems of measurement used in medical research and treatment facilities.

- Know and use the prefixes in the SI (metric) system.
- Convert measurements within the system.
- Use conversion methods to compute dosages from available drugs.
- Compute dosages for children and infants based upon accepted formulas.
- Understand how to read military time.
- Understand the use of technology in the healthcare workplace.
- Research electronic tools used in healthcare.
- Understand the use of technology in monitoring vital signs.
- Know the importance and process of electronic malfunction reporting.
- Explore careers in health technology.
- Research student organizations that are involved with students in the Health Science career cluster.
- Examine the role of professional organizations in the healthcare field.
- Investigate and evaluate a professional organization in the healthcare field.

Unit 6

- Understand the importance of homeostasis for good health.
- Describe the biological and chemical processes that maintain homeostasis.
- Describe the body cavities.
- Explain how to use terms to describe directions around the body.
- Explain what body planes are and how they are used in medicine.
- Describe the skeletal system and its functions.
- Identify disorders of the skeletal system.
- Explore healthcare careers involving the skeletal system.
- Identify three types of muscle tissue.
- Recognize the roles of muscles in the body.
- Explore healthcare careers involving the muscular system.
- Identify the anatomy of the urinary system.
- Describe the processes of the urinary system.
- Describe diseases and disorders of the urinary system
- Explore healthcare careers involving the urinary system.
- Describe the structures and functions of the reproductive systems in females and males.
- Describe the effect of the reproductive system on homeostasis.
- Identify practices that will lead to reproductive health and the prevention of disease.

Unit 7

- Identify the organs and functions of the cardiovascular system.
- Identify the structures of the heart.
- Describe the anatomy and physiology of the vascular system.
- Explain the importance of a healthy cardiovascular system to overall good health.
- Describe how to take pulse and blood pressure measurements.
- Identify diseases and disorders of the cardiovascular system.
- Explore careers dealing with diseases and disorders of the cardiovascular system.
- Identify the organs, structure, and physiology of the respiratory system.

- Explain the purpose and function of the respiratory system.
- Identify the roles of the respiratory system in homeostasis.
- Identify diseases and disorders of the respiratory system.
- Explore careers dealing with diseases and disorders of the respiratory system.
- Identify and describe the anatomy of the integumentary system.
- Describe the function of the integumentary system.
- Identify homeostatic relationships between the integumentary system and other body systems.
- Identify effects of environmental factors on the integumentary system.
- Evaluate the causes of disease and trauma and their effects on the integumentary system.
- Describe effects of the aging process on the integumentary system.
- Explore careers dealing with diseases and disorders of the respiratory system.

Unit 8

- Identify the structures and functions of the nervous system.
- Identify diseases and disorders of the nervous system.
- Explore careers dealing with diseases and disorders of the nervous system.
- Identify the structures and functions of the endocrine system.
- Identify diseases and disorders of the endocrine system.
- Explore careers dealing with diseases and disorders of the endocrine system.
- Identify the structures and functions of the digestive system.
- Identify homeostatic relationships for the digestive system and the other systems.
- Identify diseases and disorders of the digestive system.
- Explore careers dealing with diseases and disorders of the digestive system.
- Identify the body's nutritional needs and the six categories of nutrients.

Unit 9

- Explain what is needed for a fire to occur.
- Describe the causes and types of fire.
- Describe fire hazards and steps for fire prevention.
- Identify the fire extinguishers used for various types of fires.
- Explain proper responses to fire emergencies.
- Describe range of motion and basic body mechanics.
- Explain the meaning of ergonomics in the healthcare setting.
- Describe basic principles and procedures for lifting and moving a patient.
- Demonstrate proper techniques for lifting a load.
- Explain principles for moving heavy objects or patients without lifting.
- Explain the importance of properly using personal protection equipment (PPE) when lifting.
- Describe and demonstrate first aid practices.
- Identify techniques for assessing life-threatening medical emergencies.
- Describe first aid for victims of injury.
- Describe treatment for shock.
- Explain the chain of infection and how it can be broken.
- Describe various types of pathogens.
- Describe the techniques used to keep a working environment aseptic.

- Explain and demonstrate effective handwashing procedures.
- Describe proper sterile gloving technique.

Unit 10

- Describe the stages of development.
- Identify health needs and risks at each stage of early development.
- Describe the stages of development during adulthood.
- Describe health issues for the elderly.
- Research occupations related to geriatrics.
- Review several methods of measuring human development.
- Explain basic human needs based on Maslow's hierarchy of human needs.
- Describe medical and legal ethics.
- Compare and contrast medical codes of ethics.
- Explain the ethics that control medical treatment, including the use of technology.
- Describe malpractice, negligence, and liability.
- Explain the concept of autonomy as it relates to patient choices.
- Research laws that govern the health science industry.
- Explain the purpose of advance directives, including living wills, powers of attorney, and DNRs.
- Review sample documents related to advance directives.
- Recognize that change may be part of a healthcare career.
- Recognize that changes in a career path can be positive.
- Research and report on trends and the future of healthcare.

5th Grade Math STAAR Study Guide

In the 5th Grade Math STAAR® Study Guide, students are provided a comprehensive review of the current tested TEKS by reporting category. The guide contains easy-to-read summaries and practice problems for the key concepts tested on the 5th Math STAAR® assessment. The guide also includes three practice tests with detailed answer explanations. Each test was built to have similar rigor and content students will experience on the exam. Each question has been assigned the appropriate TEKS and category, so students have the information they need to focus on areas of improvement.

8th Grade Math STAAR Study Guide

In the 8th Grade Math STAAR® Study Guide, students are provided a comprehensive review of the current tested TEKS by reporting category. The guide contains easy-to-read summaries and practice problems for the key concepts tested on the 8th Math STAAR® assessment. The guide also includes three practice tests with detailed answer explanations. Each test was built to have similar rigor and content students will experience on the exam. Each question has been assigned the appropriate TEKS and category, so students have the information they need to focus on areas of improvement.

Algebra I STAAR Study Guide

In the Algebra I STAAR® Study Guide, students review all content TEKS in the STAAR®-tested reporting categories. The Study Guide also includes three STAAR®-like practice tests. The tests are the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the tests, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

English I STAAR Study Guide

In the English I STAAR® Study Guide, students review English I TEKS in the STAAR®-tested reporting categories. The Study Guide also includes a STAAR®-like practice test. The practice test consists of a reading and writing section. In the reading section, students read passages and answer multiple-choice questions about the passages. There are also two short-answer questions about the passages. In the writing section, students answer multiple-choice questions that require students to revise and edit selections. Students also write an expository essay. When scoring the tests, each question is associated with a category and a TEK. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

English II STAAR Study Guide

In the English II STAAR® Study Guide, students review English II TEKS in the STAAR®-tested reporting categories. The Study Guide also includes a STAAR®-like practice test. The practice test consists of a reading and writing section. In the reading section,

students read passages and answer multiple-choice questions about the passages. There are also two short-answer questions about the passages. In the writing section, students answer multiple-choice questions that require students to revise and edit selections. Students also write a persuasive essay. When scoring the tests, each question is associated with a category and a TEK. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

3rd Grade ELAR STAAR Study Guide

In the 3rd Grade English Language Arts and Reading (ELAR) STAAR Study Guide, students review STAAR-tested ELAR TEKS. Students will begin each lesson by reviewing important terminology and skills. Then, students are given tips and guidance for successfully answering questions that assess those terms and skills. Students will end each lesson by independently reading a text and answering questions, similar to STAAR. The Study Guide also includes three STAAR-like practice tests. The tests are the same length as previous STAAR tests with similar style texts and questions. Each question corresponds to specific 3rd Grade ELAR TEKS and a Study Guide Lesson. Students and teachers can determine if there are any lessons students should study more closely and redo.

5th Grade Science STAAR Study Guide

In the 5th Grade Science STAAR® Study Guide, students review science content TEKS in the following STAAR®-tested reporting categories. The Study Guide also includes two STAAR®-like practice tests. The tests are the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the test, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

8th Grade Science STAAR Study Guide

In the 8th Grade Science STAAR® Study Guide, students review science content TEKS in the STAAR®-tested reporting categories. The Study Guide also includes two STAAR®-like practice tests. The tests are the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the test, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

8th Grade History STAAR Study Guide

In the 8th Grade U.S. History STAAR® Study Guide, students review U.S. History (up to 1877) content TEKS in the STAAR®-tested reporting categories. The Study Guide also

includes a STAAR®-like practice test. The test is the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the test, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

Biology STAAR Study Guide

In the STAAR® Biology Study Guide, students review all Biology content TEKS in the STAAR®-tested reporting categories. The Study Guide also includes three STAAR®-like practice tests. The tests are the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the tests, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

US History STAAR Study Guide

In the STAAR® U.S. History Study Guide, students review all U.S. History (since 1877) content TEKS in the STAAR®-tested reporting categories. The Study Guide also includes a STAAR®-like practice test. The test is the same length as the STAAR® test with the corresponding number of questions for each category. When scoring the test, each question is associated with a category. Students and teachers can determine if they are struggling or excelling in certain categories and redo the questions in the Study Guide for a particular category.

English Diagnostic

The English Diagnostic is designed for students who are entering the 9th Grade. The purpose of the Diagnostic is to assess if the student is ready for high school material as well as to provide remediation for areas as needed. The Diagnostic consists of several English language categories. In each category, there is a PreTest, remediation, and PostTest. If students pass the PreTest, they will immediately go on to the next category PreTest. If students do not pass the PreTest, they will complete remediation, and then complete a PostTest. If the PostTest is passed, they will go on to the next category of PreTest.

Word Construction
Synonyms, Antonyms, and Word Meaning
Spelling Patterns
Parts of Speech
(Verbs, Nouns, Adjectives, Adverbs, Prepositions, Pronouns, & Conjunctions)
Grammar and Conventions
Sentence Construction
Composition
Organizational Strategies
Sources
Resources
Summary and Plot Elements
Similes and Metaphors
Literary Settings
Character Qualities
Infer the Theme
Point of View
Commas and Semicolons
Subject-Verb Agreement
Summarizing Main Ideas

Math Diagnostic

The Math Diagnostic is designed for students who are entering the 9th Grade. The purpose of the Diagnostic is to assess if the student is ready for high school material as well as to provide remediation for areas as needed. The Diagnostic consists of several math categories. In each category, there is a PreTest, remediation, and PostTest. If students pass the PreTest, they will immediately go on to the next category PreTest. If students do not pass the PreTest, they will complete the remediation coursework. Once remediation has been completed, students will take a PostTest. If the PostTest is passed, they will go on to the next category of PreTest.

Understanding Whole Numbers
Place Value

Add and Carry
Round Whole Numbers up to 100,000 & Estimate by Rounding
Multiply and Divide
Solving Word Problems
Define Common Fraction, Add and Subtract like Fractions
Common Denominator
Add and Subtract Unlike Fractions, Simplifying Fractions, Multiplying and Dividing Fractions, Word Problems with Fractions
Understand Decimals, Convert Fractions to Decimals, Add and Subtract Decimals
Multiply Decimals, Divide and Round Decimals
Percents
Distance
Ratios and Proportions
Probability
Converting Units
Square Roots Pythagorean Theorem
Area & Volume
Read and Construct Graphs
Signed Numbers
Graphing X and Y Coordinates
Graphing Slope
Solving Linear Equations

Personal Finance

Unit 1

- Describe company-paid benefits and offered benefits that are part of a compensation package.
- Identify benefits and payroll taxes that are deducted from paychecks.
- Differentiate between gross and net pay.
- Complete an assessment to identify personal tendencies and practices regarding money management.
- Construct realistic short- and long-term financial goals.
- Analyze the costs and benefits of ownership versus renting or leasing when making major purchases.
- Identify strategies for making informed consumer purchases.
- Differentiate between financial assets and liabilities.
- Calculate an income statement.
- Calculate a net worth statement.
- Compare and contrast basic banking services.
- Use personal records to reconcile a bank statement.
- Develop a budget plan.

Unit 2

- Describe the need to establish an emergency fund and identify strategies to build one.
- Identify ways to protect and maximize savings.
- Describe how the virtue of delayed gratification is an important tool in risk management.
- Explain factors to consider when donating money, goods, or time to a charity.
- Identify strategies for saving for a secure retirement.
- Compare and contrast investment options for long-term growth.
- Identify ways that financial institutions can facilitate personal investing.
- Calculate basic investment transactions, including stock purchases and capital gains.
- Analyze strategies for investing wisely, including dollar-cost averaging and asset allocation.
- Analyze financial scenarios, research investment options, and make recommendations to create a portfolio.

Unit 3

- Compare and contrast revolving and installment credit.
- Compare and contrast collateralized and unsecured debt.
- Compare and contrast credit and debit cards.
- Survey the components of borrowing, including credit lines, APR, grace periods, and fees.
- Evaluate potential consequences of credit use regarding one’s credit rating and overall financial health, including the possibility of bankruptcy and loss of access to credit.

- Describe the reasons why consumers should monitor their own credit.
- Summarize the steps to obtaining a credit report.
- Describe strategies for limiting, reducing, and eliminating debt.
- Research and analyze the relative merits of currently available forms of credit.

Unit 4

- Describe the importance of defining financial risk and anticipating contingencies.
- Outline risk management strategies, including avoiding, reducing, retaining, and transferring risk.
- Identify ways to protect personal information.
- Outline the steps to take if one's credit or identity is compromised.
- Identify the characteristics of common scams.
- Describe how consumer protection agencies can benefit consumers.
- Explain when and how to use common legal devices such as a power of attorney or a living will.
- Explain the characteristics, costs, and benefits of health, disability, life, property, automobile, and other types of insurance.

Unit 5

- Describe how education and training affect lifetime earnings.
- Identify factors and key statistics that can help a student in choosing a school that provides a quality education.
  Identify direct and indirect costs associated with higher education.
- Compare and contrast public, private, and community colleges, and vocational schools.
- Explain the benefits provided by the FAFSA and identify when and how to apply.
- Survey sources for funding higher education through loans, grants, and scholarships.
- Survey sources for funding higher education through work and other methods.
- Apply measures such as academic reputation, starting salary, and graduation rate to compare and contrast your schools of interest.

Investigating Careers

Unit 1

- Describe the difference between a job and a career.
- Identify the 16 career clusters.
- Explain the meaning and importance of “soft skills.”
- Explore the career clusters:
    - Agriculture, Food, and Natural Resources
    - Architecture and Construction
    - Arts, Audio/Video Technology, and Communications
    - Business Management and Administration
    - Education and Training
    - Finance
    - Government and Public Administration
    - Health Science
    - Hospitality and Tourism
    - Human Services
    - Information Technology
    - Law, Public Safety, Corrections, and Security
    - Manufacturing
    - Marketing
    - Science, Technology, Engineering, and Mathematics
    - Transportation, Distribution, and Logistics
- Understand the concept of a career pathway.
- Describe what is included in a career pathway.
- Review example career pathways.
- Explore the idea of career pathways.
- Review the career pathways under the 16 career clusters.
- Understand the relationship between a career and a high school graduation plan.
- Explore various careers or occupations.
- Analyze and describe various occupations.

Unit 2

- Understand the steps involved in making a choice of career.
- Learn what is needed to choose training opportunities.
- Know that identifying personal traits can lead to a successful career choice.
- Take an assessment that will result in three career cluster suggestions.
- Read descriptions that explain your chosen career clusters.
- Survey occupations and career pathways within your chosen career clusters.
- Explore careers within your chosen career cluster.
- Interview a person working in an occupation in which you might be interested.

Unit 3

- Understand the factors of analyzing the labor market.
- Explore two government-sponsored career information websites.

- Learn the use of an industry profile.
- Understand the idea of career outlook.
- Search for jobs based upon their career outlook.
- Understand why some jobs pay more than others.
- Explore the career site careeronestop.org to find high-wage jobs.
- Explore careers by the level of demand for them, both present and future.
- Understand the importance of education and training requirements as factors in determining interest in a career.
- Use career websites to find information regarding the education and training requirements for various careers.
- Understand the meaning of certification.
- Find certification information for specific occupations.
- Explain the difference between certification and licensing.
- Understand that each occupation has a set of skills and abilities associated with it.
- Determine how skills and abilities are found on career websites.

Unit 4

- Explain the importance of basic math skills as applied to the workplace.
- Describe the use of a calculator and spreadsheet.
- Demonstrate the ability to interpret charts and graphs.
- Explain principles of effective communication.
- Describe the use of computer applications in communication.
- Understand the types of skills needed in the workplace.
- Define strong personal qualities.
- Demonstrate the ability to be a team member.
- Learn the importance of being a leader.
- Summarize the importance of developing a wide variety of interests and participating in a broad range of activities.
- Explain the purpose of Career and Technical Student Organizations (CTSOs).
- Describe various CTSOs.
- Research a CTSO in a chosen career field.
- Describe the difference between “soft skills” and “hard skills.”
- Identify technical skills related to careers or positions that you have identified as interesting.
- Take a skills assessment to gain insight into possible careers.

Unit 5

- Understand the expectations that employers have for their employees.
- Understand the importance of character.
- Evaluate character traits in your own life.
- Understand the time-for-money exchange.
- Review the character traits of punctuality and dependability.
- Review the character trait of initiative.
- Understand the importance of working well without supervision.

- Understand the character traits of respect, obedience, flexibility, and responsibility and their importance in developing a relationship with the supervisor.
- Understand the character traits of cooperation, creativity, deference, discretion, forgiveness, meekness, sensitivity, and tolerance and their importance in relationships with coworkers.
- Develop an appreciation for diversity.
- Realize the importance of teamwork.
- Describe what it means to be a team player.
- Define your team.
- Consider ways to become a valuable team member.
- Recount ways in which teams solve problems.
- Understand the importance and basis for interpersonal relations.
- Describe qualities for gaining trust, influence, and leadership.

Unit 6

- Understand the concept of entry-level employment.
- Research an entry-level occupation.
- Explore apprenticeships, internships, and volunteer opportunities.
- Describe the armed forces as a career option or entry point.
- Understand the importance of advanced training in the career path.
- Describe the characteristics of and differences between technical or trade schools, colleges, and universities.
- Describe options for paying for college.

Unit 7

- Create an employment portfolio for collecting job-related documents.
- Write a personal information sheet.
- Describe the form and purpose of a résumé.
- Write a résumé.
- Collect documents required for employment.
- Explain the importance of character references.
- Find and select prospective references.

Unit 8

- Describe the resources available to you to help with your job search.
- Understand how to complete a job application.
- Know how to write a letter of intent.
- Write a sample letter of intent.
- Write a letter requesting a job interview.
- Understand how to request a job interview.
- Define the research you should do regarding the company and position before an interview.
- Know how to prepare yourself for an interview.
- Understand how to answer interview questions.

- Describe proper conduct during an interview.
- Realize what questions are inappropriate and illegal.
- Describe appropriate ways to follow up on a job interview.
- Describe the assessment of a job interview.
- Practice interviewing by participating in a mock interview.
- Assess your performance in a mock interview.

Unit 9

- Practice good grooming.
- Be appropriate in your appearance and manners.
- Practice high personal standards in interviews and at work.
- Understand the importance of good health to finding and maintaining a job.
- Describe poor health practices.
- Describe mental health disorders.
- Explain how stress can be managed.
- Recognize and apply leadership traits and skills.
- Define and analyze personal budgets.
- Understand the purpose of accounting systems.
- Describe and build a ledger sheet.

Unit 10

- Consider aspects of attending high school.
- Plan your high school career.
- Review study tips.
- Understand the purpose of and the need for a graduation plan.
- Review the career clusters.
- Describe the categories of advanced course work.
- Explain why a maximum effort is important in your high school years.
- Understand the importance of college and other types of postsecondary education to your career.
- Understand the best steps for learning about colleges and their offerings.
- Make good choices about your behavior and friends.
- Understand the value of working hard in school.
- Know the importance of keeping an open mind about career choices.
- Complete personal assessments of attitude and work habits.
- Complete your Occupations Notebook.

Medical Terminology

Module 1

- Describe medical terminology and its purpose in the healthcare setting.
- Explain the benefits of knowing and using medical terminology.
- Describe the importance of medical terminology.
- Describe how medical terminology has evolved.
- Outline the differences between Latin and Greek influences in medical terminology.
- Highlight the importance of Hippocrates' work in medical terminology.
- Define confidentiality in a medical context.
- List different scenarios where confidentiality is commonly breached.
- Describe exceptions to maintaining confidentiality.
- Identify ways medical terms are used in health settings.
- Compare and contrast different types of health settings.
- Distinguish the different word parts.
- Explain the different rules of plurality.
- Explain why correctly pronouncing and spelling words is important.
- List some strategies to use when practicing spelling and pronunciation.
- Define what a prefix is.
- Distinguish between different types of prefixes.
- Provide examples of prefixes.
- Predict a meaning based on its prefix.
- Define what a suffix is.
- Identify where a suffix is located in a medical term.
- Give examples of how to use suffixes.
- Distinguish between noun, adjective, and plural suffixes.
- Identify a word root in a medical term.
- Describe how combining forms work.
- Explore different techniques to study medical terminology.
- Describe the purpose of a medical record.
- Explain the different types of medical records.

Module 2

- Understand the naming conventions for systems in the body.
- Learn the word roots associated with different body systems.
- Describe what anatomical position is using an illustration.
- Explain the different body cavities.
- Identify how the human body is separated into body regions.
- Distinguish the different planes used to explain body positioning.
- Define the different types of diseases.
- Explain infectious diseases and how they spread.
- List different word parts associated with disease.
- Describe the different stages of disease.
- Explain the steps performed during a physical examination.
- Outline the different ways to perform a biopsy.
- Describe how the body responds to a disease or illness.

- Explain what drugs are and how they are named.
- Describe why side effects can occur.
- Contrast the different drug interactions and provide examples.

Module 3

- Describe the purpose of the musculoskeletal system.
- Explain how the body functions during locomotion.
- Describe functions of the skeletal system.
- Identify the main anatomical divisions of the skeletal system.
- Recognize the different bones of the skeletal system.
- Explain how the skeletal system aids in overall body movement.
- Identify key terms of the skeletal system.

Module 4

- Describe the role of the cardiopulmonary system.
- Explain how the heart and lungs interact.
- Outline the anatomy of the heart and respective functions for each component.
- List the different chambers and valves of the heart.
- Compare and contrast the different types of blood vessels.
- List the different components of blood and their function.
- Describe blood and its purpose in the cardiovascular system.
- Learn the different specialists in the cardiovascular field.
- Memorize key word parts related to the cardiovascular system.
- Identify different cardiac disorders.
- Describe the pathology of different cardiac disorders.
- Define medical terms about cardiac diseases and illnesses.
- Identify different ways to treat cardiovascular illnesses.
- Describe the waves in an electrocardiography report.
- Identify the major organs of the respiratory system.
- Describe the function of major organs.
- Define medical terms and word parts related to the respiratory system.
- Explain the process of inhalation and exhalation.
- Describe the lung volumes and capacities.
- Define word parts for the respiratory system.
- Identify different respiratory disorders.
- Describe the pathology of different respiratory disorders.
- Define medical terms about respiratory diseases and illnesses.
- Describe the different ways to treat respiratory disorders.
- Contrast the different treatments for various respiratory disorders.
- Explain the process of using common diagnostic tools like pulmonary function tests.
- Identify medical terms associated with diagnosing and treating respiratory disorders.

Module 5

- Differentiate between immunology, the immune system, immune responses, and immunity.
- Explain the historical context of immunology.
- Describe the function of the immune system.
- Contrast the three different lines of defense with immunity.
- Explain what an adaptive immune response is.
- Describe the cells used to elicit an immune response.
- List the characteristics of adaptive immunity.
- Describe human blood and cell differentiation.
- Contrast granulocytes with agranulocytes.
- List the function of cells that are either granulocytes or agranulocytes.
- Describe the role of the lymphatic system within the broader immune system.
- Explore the different word parts used to build integumentary system terms.
- Differentiate between anatomical terms and other general terms.
- Explain the difference between primary and secondary lymphatic organs.
- Identify the different types of immunodeficiency disorders.
- Explore common pathological terms used to describe the immune system.
- Identify the different types of skin reactions and common skin disorders.
- Examine the characteristics of skin disorders observed in pathology.
- Describe the different types of skin cancers.
- Differentiate between basal, squamous, and melanoma skin cancers.
- Identify the different types of lesions.
- Identify common abbreviations and medical terms used to describe symptoms.
- Describe the different ways to diagnose and treat skin conditions.
- Identify common medical terms used for diagnosis and treatment.
- Explain tumor grading as it relates to skin cancer.
- Describe skin grafting and where it would be used.
- Distinguish between the different types of diagnostic tests.

Module 6

- Define the function of the urinary system.
- Describe the different anatomical parts of the urinary system.
- Contrast the functions of each organ in the urinary system.
- Describe the parts of a nephron.
- Contrast the function of each part within a nephron.
- Explain the process of urinary formation, including the three stages.
- Explain why disorders generally occur in the urinary system.
- Describe what happens when kidney stones form.
- Outline the symptoms and causative factors of infections.
- Describe acute renal failure and its associated symptoms.
- Learn more about job positions involving medical terminology.
- Differentiate between urologists and nephrologists.
- Introduce the digestive system via gastroenterology.
- Understand the different oncology specializations involved in the urinary and digestive systems.
- Learn about dentistry and orthodontics.
- Identify the anatomical locations of organs in the digestive system.

- Explain the function of different digestive organs.
- Describe key terms used to explain the process of digestion.
- Describe the different accessory organs and their functions.
- Describe the different disorders and diseases of the digestive system.
- Explain functional problems associated with the digestive system.
- Identify medical terms used to describe the pathology of the digestive system.
- Describe digestive disorders that affect accessory organs.
- Contrast the different types of hepatitis.
- Explain the procedures used to make a diagnosis.
- Contrast the different diagnostic imaging techniques to analyze the digestive system.
- Describe the role of pharmacology in treating digestive disorders.
- Outline a list of medical diagnostic terms and abbreviations.

Module 7

- Describe the functions and importance of the endocrine system.
- Explain the connection between the endocrine system and the nervous system.
- Describe why endocrine disorders usually occur.
- Contrast different disorders for the thyroid, pituitary, pancreas, and adrenal glands.
- Explain the relationship between the pancreas and diabetes mellitus.
- Explain the purpose of diagnosis with endocrine pathology.
- Describe how to diagnose and treat endocrine disorders.
- Review key diagnostic and treatment medical terms used for the endocrine system.
- Explain what the reproductive system is.
- Explain the differences between male and female reproductive health.
- Identify the importance of reproductive maturity.
- Identify the reproductive cells found in men and women.
- Describe the function of the reproductive organs in the male reproductive system.
- Identify the location of different anatomical structures in the male reproductive system.
- Explain the function of the male reproductive system.
- Identify key medical terms used to describe the male reproductive system.
- Identify the different anatomical structures of the female reproductive system.
- Describe the function of different organs in the female reproductive system.
- Outline the various functions of the female reproductive system.
- Explain the process of menstruation, including the different stages.
- Describe the purpose of menopause and what happens in a woman.
- Explain how an egg is fertilized.
- Outline the steps involved in pregnancy and delivery.
- Contrast different disorders of the female and male reproductive systems.
- Explain what sexually transmitted infections are and the different types.
- Describe breast cancer and the risk factors for development.
- Identify common diagnostic tools related to the male and female reproductive systems.
- Describe the different treatment methods used to address reproductive disorders.
- Outline differences in techniques used on men and women for diagnosis and treatment.

- Identify medical terms used for diagnosis and treatment.

Module 8

- Describe the organization of the nervous system.
- Explain the principal cell types of the nervous system.
- Compare and contrast the function of neurons and glial cells.
- Describe the components of a neuron.
- List the different glial cells found in the central nervous system.
- List the anatomical regions of the brain and spinal cord.
- Describe the parts of the peripheral nervous system.
- Label the anatomical regions of the peripheral nervous system.
- Differentiate between the somatic and autonomic nervous systems.
- Contrast the parasympathetic and sympathetic nervous systems.
- Identify glial cells of the peripheral nervous system.
- Define word roots used to describe the peripheral nervous system.
- Contrast the different types of brain tissue.
- Identify the major lobes of the cerebrum and their function.
- Describe and label the anatomy of the brain and spinal cord.
- Explain how the spinal cord is segmented and its relationship to the spinal nerves.
- List the protective layers of the brain with a description.
- Compare and contrast different neurological disorders.
- Describe the major disorders of the nervous system.
- List common symptoms associated with neurological disorders.
- Label the anatomy of the eye and explain the function of each part.
- Describe the neural pathway from the eye to the brain.
- Describe the roles of the retina and optic nerve for vision.
- Identify and use word parts associated with the eye.
- Describe the role of senses in detecting the internal and external environment.
- Identify the different sensory receptors and their location.
- Describe the anatomy of the ear.
- Explain the relationship between smelling and tasting.
- Describe the anatomy of the nose.
- Describe the major disorders of the eyes and ears.
- Explain specific vision issues that affect people.
- List symptoms associated with disorders of the eyes and ears.
- Identify the common ways to diagnose and treat neurological or sensory disorders.
- List specific treatments tailored for neurological disorders and vision issues.
- Define abbreviations used to describe the nervous and sensory system.

Advertising

Module 1

- Describe the function of advertising in marketing.
- Identify businesses related to advertising and sales.
- Survey career opportunities within the field of advertising.
- Research and describe careers within the advertising industry.
- Identify the role of labor unions, professional organizations, and trade associations within the advertising industry.
- Describe ethical and legal practices guiding behavior within the advertising industry.

Module 2

- Describe historical developments in the history of advertising.
- Compare and contrast different media forms.
- Examine social media's role in advertising.
- Outline the four components of media marketing.
- Analyze environmental factors affecting advertising.
- Describe the purposes and characteristics of marketing information systems.
- Prepare a marketing forecast by collecting and analyzing data.

Module 3

- Define target markets and describe their importance.
- Explain the importance of using demographics in the advertising industry.
- Compare and contrast buying habits and buying preferences.
- Describe how multiculturalism and multigenerationalism affect diversity when forming advertising strategies.
- Investigate the ways that cultures and trends influence international marketing decisions.
- Describe standards and expectations for professional dress and behavior.
- Identify and analyze the seven steps of the sales process.
- Apply the principles of the sales process to a real-life situation.

Module 4

- Explain how product, price, place, and promotion contribute to the marketing mix.
- Consider the factors going into making product decisions and planning for new products.
- Outline the steps of the product life cycle.
- Compare and contrast product pricing policies.
- Describe how distribution affects advertising pricing policies.
- Identify elements of the promotional mix, including personal and nonpersonal selling.

- Outline the steps of the promotional planning process.
- Use the promotional planning process to develop a visual merchandising campaign.

Audio Visual Production I

Module 1

- Explore the history and evolution of the audio/video production industry.
- Understand the origins of film and audio production.
- Identify key elements required in video scripts.
- Explore script structure.
- Explore videography techniques like shot types and composition.
- Analyze the storyboard development process of a successful production.
- Explore common audio/video production documents.
- Identify cast, crew, equipment, and location requirements for a scripted production.
- Understand the need for a detailed production budget.
- Explore different fundraising tools.
- Identify the cast and crew roles involved in a production.
- Understand the casting process.

Module 2

- Identify different forms of video, including film, tape, and digital.
- Understand the basics of how a digital sensor operates.
- Identify different audio and video file formats, including compressed and uncompressed formats.
- Explain the importance of proper file management.
- Distinguish between analog and digital platforms.
- Identify common digital platforms and display resolutions.
- Explore the basics of camera lenses and how they function.
- Understand the relationship between aperture, depth of field, and focus.
- Learn the importance of white balance in videography.
- Understand various cables and connectors.
- Explore common camera and lighting gear.
- Create technology specifications.
- Use the internet to enhance knowledge of camera gear and productivity.

Module 3

- Identify and evaluate the crew role of director.
- Identify and evaluate the crew role of director of photography.
- Identify and evaluate the crew roles of key assistants.
- Identify and evaluate the crew roles of gaffer and grip.
- Examine and summarize safety-related problems that may result from working on an AV set.
- Explore specific gear helpful in maintaining a safe work setting.
- Understand, follow, and create emergency and safety procedures.

Module 4

- Explore considerations for selecting appropriate AV products.
- Learn your options for acquiring AV gear.
- Identify how NLEs are different from linear editing systems.
- Explore different kinds of popular NLEs.
- Understand the basics of video editing platforms and workstations.
- Explore how to begin a new editing project.
- Learn the basic tools of most NLE platforms.
- Practice the NLE exporting process.
- Explore the impact media can have on thinking.
- Identify the ways in which ethical considerations can help improve your work and interactions with others.
- Understand the requirements of respecting and giving credit to the works of others.
- Explore the basics of copyright laws.

Module 5

- Understand the basic postproduction process.
- Explore sound design and composition as a part of the postproduction process.
- Explore a brief history of visual effects.
- List common forms of visual effects utilized today.
- Explore the postproduction process of creating visual effects using a green screen and keying.
- List the main techniques for effective green screen keying.
- Explore the basics of postproduction compositing.
- Practice compositing on a consumer NLE system.
- Explore the visual effects process of motion tracking.
- Practice motion tracking in standard compositing software.
- Analyze current and future trends in the AV industry.
- Describe how changing technology is impacting the audio, video, and film industries.

Module 6

- Explore the three branches of sound design.
- Understand the nature of sound and the terminology utilized in the audio production industry.
- Understand the primary elements of music.
- Explore how music can produce varying emotional responses in an audience.
- Understand the crew roles fulfilling the needs of audio for video on set.
- List the equipment needed to adequately capture audio for video.
- Understand the basics of developing effective audio scripts.
- Apply writing skills to develop an audio script.
- Explore the basics of digital audio workstations and their components.
- Understand microphone types and how they function.
- Understand the questions to consider when choosing AV contracts.

- Create a unique product for an organization and invoice the company appropriately.

Module 7

- Understand distribution channels as they relate to the AV industry.
- Describe the difference between traditional versus digital channels.
- Understand the importance of defining a target market.
- Explore different methods for defining a target market.
- Understand the importance of promotional planning.
- Create a promotional list.
- Understand the importance of product launch timing in the AV industry.
- List steps to ensure products have the best launch timing.
- Explain the power of word-of-mouth advertising.
- Explore ways companies can encourage word-of-mouth advertising.
- Understand the importance and purpose of an effective marketing plan.
- List the essential components of marketing plans.

Module 8

- Learn and employ leadership, teamwork, and conflict management skills.
- Use planning and time management to complete a group project.
- Understand the importance and steps of the critique process.
- Give and receive critiques from peers.
- Evaluate the importance of certification for professional employment.
- Explore and create a cover letter and resumé for professional employment.
- Explore helpful tools for choosing a personal career.
- Research opportunities for employment and entrepreneurship.
- Learn the primary components of a professional portfolio and demo reel.
- Create a career portfolio representing real work samples.

Counseling and Mental Health

Module 1

- Define mental health.
- Describe aspects of an individual's well-being.
- List forms of mental illness.
- Describe health care given to mental health patients in ancient times.
- Describe mental health care in the Middle Ages.
- Recount the sources of some terminology associated with mental illness.
- Describe the care of mental patients following the 18th century, focusing on the growth of institutions and asylums.
- Explain the principle of deinstitutionalism.
- Describe developments in the treatment of mental illness since the Middle Ages.
- Research student organizations that are involved with students seeking a career in a mental health care field.

Module 2

- Identify the function of the nervous system.
- Explain the division of the nervous system.
- Identify the structures of the nervous system.
- Identify the structures of the central nervous system.
- Explain the functions of the central nervous system.
- Describe the structure of the peripheral nervous system.
- Identify the functions of the peripheral nervous system.
- Describe the action of a reflex arc.
- Describe the development of the structures and divisions of the nervous system.
- Identify changes in the nervous system due to aging.
- Identify and describe diseases of the nervous system.
- Describe the homeostatic relationships of the nervous system.
- Explain uses of neurotechnology.

Module 3

- Outline the stages of Jean Piaget's theory of cognitive development.
- Outline the stages of Erik Erikson's theory of psychosocial development.
- Describe developmental issues that lead to mental health disorders in very young children.
- Describe mental health disorders in children.
- Describe mental health issues that appear during adolescence.
- Describe mental health issues that appear during young adulthood.
- Describe mental health issues that appear during adulthood.
- Describe mental health issues that appear during the senior years.

Module 4

- Identify the basic forms of communication.
- Analyze the importance of communication skills to maintaining healthy relationships.
- Understand the importance of effective communication in dealing with coworkers, other medical professionals, and patients.
- Develop active listening skills.
- Explain how to communicate to the speaker that you are listening.
- Understand that medical terms are formed from combinations of roots and affixes.
- Understand that acronyms and abbreviations are used in medical terminology.
- Describe the difference between verbal and nonverbal communication.
- Explain the meaning and importance of body language.
- Understand the importance of recognizing cultural variations in body language.
- Understand aspects that define the health care workplace.
- Define and explain the importance of a team to client recovery and success.
- Identify characteristics of team members that lead to the success of a team.
- Explain the concept of synergy as it relates to health care teams.
- Explain and recognize the value of collaboration within the workplace.
- Apply interpersonal communication skills in a team setting.
- Consider ways to become a valuable team member.
- Recount ways in which teams solve problems.
- Differentiate between privacy and confidentiality.
- Describe the necessity of protecting privacy.
- Explain the circumstances under which information must be kept confidential.
- Explain why a confidence might need to be broken.

Module 5

- Explain the meaning of stress as used in a psychological context.
- Compare stress with anxiety.
- Recognize symptoms of stress.
- Describe long-term effects of stress.
- Explain the causes and symptoms of anxiety disorders.
- Describe conditions that are related to anxiety.
- Describe specific phobias.
- Describe practices that lead to improvements in physical and mental health.
- Explain life changes that lead to a more positive outlook and the ability to combat stress.
- Explore careers providing help for those with anxiety disorders.
- Describe treatment options for patients with stress and anxiety.

Module 6

- Describe depression and its common signs and symptoms.
- Know the warning signs of suicide.
- Recall the number for the National Suicide Prevention Lifeline: 1-800-273-8255.

- Identify different types of depressive disorders.
- Describe the care and treatment for people with depression.
- Understand the differences between psychosis and neurosis.
- Understand causes, onset, symptoms, and terminology of psychotic disorders.
- Differentiate between positive and negative symptoms.
- Identify characteristics of various disorders that may result in the condition known as psychosis.
- Understand more about the disorder called schizophrenia.
- Explore symptoms and treatment options of mental disorders that involve psychosis.

Module 7

- Recognize client rights and choices.
- Recognize circumstances that may alter clients' rights.
- Dramatize case studies related to client rights and choices.
- Identify and understand the signs of abuse.
- Understand and demonstrate appropriate actions in emergency situations.
- Practice personal and client safety.
- Identify and classify equipment used in the delivery of mental health services.
- Understand how technology has been used in the collection and secure sharing of patient records.
- Define the skills and aspects of critical thinking.
- Review definitions, skills, and steps for solving problems.
- Define what makes a good solution.
- Anticipate and adapt to changing situations.
- Become more aware of the surroundings and developing circumstances.
- Demonstrate effective strategies for managing time and prioritizing tasks.

Module 8

- Identify how ethics apply in a work situation.
- Apply character traits to the idea of ethics.
- Describe the relationship between professional standards and high ethical practice.
- Explain the attitudes and traits needed for client interaction.
- Describe professionalism and its various aspects.
- Examine a designated scope of practice of professionals.
- Define the professional standards of practice for mental health care practitioners.
- Research and describe legal aspects and issues of malpractice, negligence, and liability.
- Explain the role of the community in providing mental health care to the public.
- Identify the result of socioeconomic factors that influence mental health and care.
- Describe programs that help to pay for mental health care.
- Research local social services and mental health resources.
- Review legislation that affects standards of client care.
- Explore federal and state regulatory agencies that focus on mental health services and substance abuse prevention and treatment.
- Identify career opportunities related to mental health.

- Explore the training, education, and certifications needed for careers in counseling and mental health.
- Understand the connection between education and various career levels.
- Understand the importance of college in the career path.
- Describe the type of training that might follow postgraduate degrees.

Principles of Government and Public Policy

Module 1

- Differentiate the roles of elected and appointed officials at the national, state, and local levels of government.
- Describe how elected and appointed officials obtain their positions.
- Survey higher education options ideally suited for a career in public policy.
- Survey public policy careers in government and the private sector, including nonprofit organizations.
- Describe volunteer opportunities and explain how they can contribute to a career in public policy.
- Identify ethical standards as described in the Standards of Ethical Conduct for Employees of the Executive Branch that apply to federal employees and public policy employees in general.
- Analyze scenarios to determine whether certain actions are ethical or unethical.
- Identify standards of professionalism expected of public policy officials and employees.
- Conduct research and present written findings about two public policy occupations.

Module 2

- Identify historical views of government, including natural law, the divine right of kings, and the social contract theory.
- Identify theories of government formation, including force, evolutionary, and divine right.
- Outline the contributions of philosophers Thomas Hobbes, John Locke, Charles de Montesquieu, and Jean-Jacques Rousseau to the development of constitutional government.
- Compare and contrast the characteristics of classic forms of government, including authoritarianism, monarchy, and democracy.
- Identify the fundamental principles on which liberal democracy is built.
- Compare and contrast the ways that governments distribute power.
- Utilize written skills to compare and contrast governments.

Module 3

- Examine the role of the Declaration of Independence in setting a foundation for a republican form of government.
- Identify the importance of compromise in the creation of the Constitution.
- Outline the positions of the Federalists and the Anti-Federalists.
- Explain how various writings swayed public opinion toward eventual ratification of the Constitution.
- Articulate the importance of the Constitution in safeguarding individual rights and liberties.
- Identify the principles upon which the Framers based the Constitution.

- Explain how the Constitution distributes power between the national and state governments.
- Identify civil rights guaranteed by the Constitution's Bill of Rights.
- Identify ways that the Constitution may be formally and informally amended.

Module 4

- Examine the structure of the legislative branch and identify qualifications for legislators.
- Identify how representation is determined.
- Describe the committee system.
- Outline the lawmaking process.
- Identify qualifications and roles of the executive branch.
- Distinguish the roles of Cabinet departments, independent regulatory commissions, independent agencies, and government corporations within the executive branch.
- Describe the structure of the federal and state court systems.
- Survey the changing role of judicial review.
- Compare and contrast the relative merits of judicial activism and judicial restraint.
- Outline checks and balances involving the judicial branch.

Module 5

- Analyze the strengths and weaknesses of federalism.
- Survey the historical development of federalism in the United States.
- Survey the structure and constitutional powers of the Texas state government.
- Examine the role and function of state government within the federal system.
- Describe the structure and role of county governments, school districts, and special districts.
- Identify ways that local governments generate revenue.
- Describe the structure and role of municipal governments.
- Identify ways that citizens can serve in municipal government.
- Consider public policy issues in creating a zoning and planning map for a growing city.

Module 6

- Explain the role of due process in protecting individual rights against government abuse.
- Survey the evolving views and actions taken by the federal government concerning protection of the rights of individuals.
- Differentiate between civic responsibilities and civic duties.
- Identify influential factors in the development of individual political opinions.
- Describe ways that citizens may influence or create public policy through initiatives, referenda, and recalls.
- Identify historical examples of civil disobedience.
- Survey historical examples of change in American culture brought about by government policies.

Module 7

- Examine the functions and organizational structures of political parties.
- Analyze the strengths and weaknesses of methods used to measure public opinion and participation.
- Analyze the methods employed by special interest groups in shaping public policy.
- Identify and differentiate between economic, public interest, and government interest groups.
- Evaluate the government's role in developing public policy using historical examples.
- Evaluate the government's role in developing foreign policy using historical and contemporary examples.
- Describe and analyze geographical and other social science considerations in determining foreign policy.
- Identify government policies that have affected the physical and human characteristics of a place or region.
- Identify and analyze physical regions of economic significance on a map.

Module 8

- Analyze the use of symbols and symbolic language in the formation of public policy.
- Analyze policies and practices intended to ensure public safety.
- Analyze policies and practices intended to protect the environment.
- Survey the role of government in encouraging free enterprise through protection of private rights and competition.
- Identify government policies that have encouraged scientific discovery and technological innovation.
- Identify the challenges presented to government by emerging technologies.
- Describe the different types of government protections for intellectual property.
- Compare and contrast styles of leadership used by several Presidents of the United States.

Web Communications

Module 1

- Gain understanding of the role and responsibility of being a digital citizen.
- Learn the importance of respecting intellectual property rights in the Digital age.
- Learn how to participate online in a positive manner while demonstrating appropriate and acceptable online behavior.
- Realize some of the potential harmful long-range effects of inappropriate online behavior.
- Understand the appropriate use of a variety of different online communication tools and the importance of projecting a positive online presence.
- Realize the need to verify information found on the internet.
- Understand the importance of presenting a positive digital presence when interacting online.
- Learn specifics of practicing good manners online.
- Put safeguards and practices in place to help prevent hackers, identity thieves, and other cybercriminals from committing crimes.
- Take precautions and develop good habits to prevent inappropriate use of technology, which could lead to negative consequences.

Module 2

- Survey the history of the internet and the World Wide Web.
- Gain an understanding of how the development of the internet affects how we use it today.
- Learn how to structure effective search expressions.
- Gain understanding of Boolean operators and how they help increase the accuracy of search engine results.
- Develop a better understanding of researched subject matter by learning the meanings of associated vocabulary words.
- Learn ways to help distinguish between reliable and unreliable information found on the Web.
- Understand how to correctly cite information sources found online.
- Gain an understanding of the steps involved in planning an information project.
- Survey the tools available to help prepare work for online publication.
- Practice evaluating original work to ensure quality and protect online reputation.
- Understand the different types of software licensing formats and how they affect the creation of original work.
- Survey new technologies and discuss how they can affect online communication.
- Discuss how new technologies can work together to change society.
- Learn ways to increase the benefits of new technology to society.

Module 3

- Gain an understanding of the importance of maintaining a positive online image.
- Learn strategies for creating effective online personal branding.

- Comprehend the need for web standards and guidelines.
- Learn to evaluate the usability of webpages.
- Understand the importance and benefits of making webpages accessible to all users.
- Gain an understanding of how people's use of the Web has changed since its beginning.
- Learn about new media literacies and the importance of obtaining them.
- Discuss how Web use continues to evolve and produce innovative technologies.
- Learn to think critically about content consumed online.
- Consider different available methods for contributing online content to the Web.
- Evaluate the relationship between digital citizenship and creating appropriate content for the Web.
- Gain an understanding of the importance of collaboration.
- Survey several types of digital tools that help with working in teams.
- Learn why collaboration is an attractive work style in modern work environments.
- Study strategies for developing traits beneficial to collaborative work.
- Consider the severe dangers of cybercrime.
- Survey several types of online attacks commonly directed at Web servers.
- Learn some of the defense strategies Web administrators use to protect data.
- Explore the pros and cons of in-house Web server providers versus using a Web server provider.

Module 4

- Learn the different parts of a computer system.
- Understand the basic functions of a computer system.
- Learn about various input, output, and storage devices for computer systems.
- Gain an understanding of the advantages and risks of smart peripheral devices.
- Acquire knowledge regarding the purpose and requirements of servers.
- Examine the trend of using virtual servers and the associated benefits and risks.
- Discuss the potential impact of the 5G wireless network on the use of servers.
- Practice building a simple website using HTML code in a text editor.
- Learn proper file organization and naming conventions when working with websites.
- Study basic principles of web design.
- Learn techniques for creating universally acceptable documents.
- Survey different factors that affect website loading speeds.
- Gain practice creating a rubric to evaluate websites.

Sports and Entertainment Marketing

Module 1

- Understand the history of sports and entertainment.
- Explain the marketing concept as it relates to sports and entertainment.
- Understand and categorize different business activities.
- Explore various marketing functions.
- Explain how sports and entertainment is both marketed and used to market.
- Understand the importance of ticket sales in sports and entertainment.
- Understand the importance of target markets.
- Explore the advantages and disadvantages of target marketing.
- Explain the importance of market research and analysis.
- Understand the need for selling and its economic impact.
- Explore the process of selecting and selling sports and entertainment products.
- Understand and visualize the concept of market positioning.
- Identify marketing strategies for sports and entertainment products.

Module 2

- Understand the marketing mix and how it contributes to successful marketing plans.
- Compare and contrast pricing strategies.
- List environmental influences on sports and entertainment demand.
- Define branding and differentiate between brand types.
- Identify characteristics of a successful brand and brand value.
- Identify the elements of the promotional mix.
- Explore the promotional plan and analyze them for effectiveness.
- Explore the stages of new-product development.
- Identify the stages of the product life cycle.
- Explore the need for a positive fan experience.
- Explain the importance of entertainment in games and sports.
- Understand the role of game operations in sports planning.
- Create a game operations plan to increase game attractiveness.

Module 3

- Discuss the different kinds of entertainment distribution.
- Explore various distribution channels and the role of each member.
- Evaluate common business documents such as budgets, balance sheets, and income statements.
- Explain the importance of revenue streams.
- Identify different kinds of revenue streams in sports and entertainment.
- Explore marketing information systems.
- Analyze an existing marketing information system, and apply it to a product or service.

- Explore an existing marketing information system, and apply it to a selected product or service.
- Explore sponsorships and endorsements and their advantages and disadvantages.
- Identify components of legal agreements and contracts.
- Identify the components of effective event marketing.
- Define licensing and explain its advantages and disadvantages.

Module 4

- Explore risks that are commonly associated with sports and entertainment businesses.
- Explain how businesses can control and mitigate risks.
- Explore careers in the sports and entertainment marketing industry.
- List businesses related to sports and entertainment.
- Analyze ethics and legislation that impact sports and entertainment marketing.
- Explore the importance of communications in sports and entertainment.
- Understand publicity and how it can be managed by companies.
- Analyze the importance of media and community rights.
- Differentiate between media rights, community rights, and public relations.
- Explore the basics of a press kit, press release, and press conference.
- Create a press kit, and simulate a press conference.
- Exhibit leadership skills in the context of group work.

Principles of Education and Training

Module 1

- Identify the three programs in the Education and Training Career Cluster
    - Teaching and Training
    - Professional Support Services
    - Administration and Administrative Support
- Identify the projects the student will create during this course:
    - Formulate a personal set of beliefs relevant to education in preparation of developing a philosophy education
    - Assemble basic professional portfolio components such as basic resume, samples of work, service learning log, assessment results, and mock scholarship applications
    - Present the portfolio to interested stakeholders
- Define and understand the historical and political influences on education in the U.S.
- Define and understand the societal and cultural influences on education in the U.S.
- Define and understand the trends and issues in training in the United States
- Predict job market trends in training and education

Module 2

- Demonstrate written communication.
- Perform job-appropriate numerical and arithmetic application.
- Practice various forms of communication such as verbal and non-verbal communication used in educational and career settings.
- Exhibit teamwork skills.
- Apply decision-making skills.
- Implement problem-solving techniques.
- Acquire conflict management skills.
- Develop leadership skills.
- Demonstrate professionalism.
- Develop effective work ethic practices.

Module 3

- Understand the various roles and responsibilities of professionals in the fields of teaching and training.
- Understand the personal characteristics, qualities and aptitudes of professionals in the field of teacher and training.

- Understand the education alternatives after high school for a career choice.
- Examine education degree plans for occupations within the field of teaching and training.
- Recognize the impact of career choice on personal lifestyle.

Module 4

- Understand the various roles and responsibilities of professionals in the field of education support services.
- Understand the personal characteristics, qualities and aptitudes of professionals in the field of education support services.
- Understand the education and training alternatives for professionals in the field of educational support.
- Understand education degree plans for occupations within the field of education support services.
- Understand the skills specific to professionals in education support services.
- Recognize the impact of career choice on personal lifestyle.

Module 5

- Understand the various roles and responsibilities of administration professionals.
- Understand the personal characteristics, qualities and aptitudes of professionals in the field of administration.
- Understand the education and training alternatives for professionals in the field of administration.
- Examine education degree plans for occupations within the field of administration.
- Examine skills: leadership, conflict management, and skills specific to a career in administration.
- Recognize the impact of career choice on personal lifestyle.

Module 6

- Understand the various roles and responsibilities of administrative support professionals.
- Understand the various roles and responsibilities of the school administrators.
- Understand the personal characteristics, qualities and aptitudes of professionals in the field of administrative support.
- Understand the education and training alternatives for professionals in the field of administrative support.
- Examine education degree plans for occupations within the field of administrative support.
- Examine skills: communication, math applications, technology specific to a career in administrative support.
- Recognize the impact of career choice on personal lifestyle.

Module 7

- Experience educator duties and responsibilities through activities such as assisting, shadowing, or observing.
- Develop instructional materials such as lesson components, and mini lessons.
- Develop instructional materials such as manipulatives, visuals, and teacher aids.
- Understand productive work habits: organization, time management, and initiative.
- Prepare an inventory and analysis of interests and abilities.
- Formulate a personal set of beliefs relevant to education.
- Develop a philosophy of education.

Module 8

- Identify high school and dual enrollment courses related to specific career cluster.
- Identify and compare technical and community college programs that align with interest areas.
- Identify and compare university programs that align with interest areas.
- Analysis of transferable skills within the Education and Training Career Cluster.
- Develop a graduation plan.
- Prepare a résumé.

World Health Research

Module 1

- Define world health
- Distinguish between individual health, public health, and world health
- Identify the broad challenges that the world health discipline faces
- Describe the World Health Organization and their initiatives
- Define health transition in developing versus developed nation.
- Identify the leading causes of death in a developing and developed nation.
- Describe the pathophysiology of the leading causes of death in developing and developed nations.
- List and describe the determinants of health.
- Explain the environmental role in health problems for developing and developed countries.
- Define health disparity in the world.
- Contrast differences in health disparities between developing and developed countries.
- Describe how diseases were viewed in the ancient world.
- Explain the history of the relationship between diseases and human life.
- Contrast the major plagues that have happened in history.
- Define epidemic and the decline of such events in the developed world.
- Describe the evolution of medical technology from the ancient world to the present.
- Define primary health care in the context of world health.
- Contrast the quality of primary health care in a developing country vs a developed country.
- Explain the origins and importance of primary health care.
- Describe the function of the WHO as it relates to improving quality health care across the world.
- Describe globalization and how this connects to health problems
- Explain globalization in the past versus the 21st century.
- Describe the challenges with global health and how it impacts developing countries.

Module 2

- Identify the factors that affect health status
- Describe the purpose of using health data in world health
- Contrast the common phrases health data and “big” data
- Explain burden of disease WHO’s role in estimating this burden
- Define and describe health indicators
- List the various reasons why data is needed
- Explain how data is used to solve global health challenges
- Compare and contrast the world health indicators used by WHO
- Describe the useful information retrieved from disease surveillance monitoring
- Describe the purpose of vital statistics

- Identify the different types of vital statistics
- Describe the challenges with using vital statistics as a form of health data
- Explain the international classification of disease
- Compare birth rates to mortality rates.
- Identify the different ways to measure health status
- Calculate birth, mortality, incidence and prevalence rates.
- Describe morbidity rates as it relates to incidence and prevalence
- Explain the misconceptions associated with incidence and prevalence rates
- describe the parts of an analysis plan
- explain the purpose of research design
- identify commonly used public datasets
- contrast observational and experimental studies
- Describe the three common ways to analyze data
- Provide world health examples of analyzing data by time, place, and person
- Explain the outcomes that stem from accurate data interpretation
- Use HIV-AIDs data as an example to demonstrate how data interpretation works
- Describe the common ways to present data and why careful selection matters

Module 3

- Describe infectious diseases and their mode of transmission
- Explain the global health threat associated with infectious diseases
- Describe the connection between poverty and the prevalence of infectious disease cases, globally
- Identify the different ways organizations like WHO help manage the spread of infectious diseases
- Describe how infectious agents infect people
- Define emerging infectious diseases and how they are caused
- Explain the different mechanisms of invasions for infectious agents
- Identify the major types of infectious agents (bacteria, virus, parasites, fungi)
- Describe the importance of prevention on a global scale.
- Outline the various ways to prevent disease transmission.
- Explain the high priority factors that often contribute to the spread of diseases.
- Contrast active from passive immunity
- Explain ways to boost the immune system
- Differentiate innate from adaptive immunity
- Outline the three lines of defense with the immune system
- Explain how vaccinations work
- Define vaccines and their characteristics
- Outline why vaccinations are recognized as global health successes
- Explain the WHO's role in supporting infection control.
- Define infection control and the different ways to implement this process.
- Describe the future of vaccination research and the types of vaccines currently under study.
- Provide examples of groundbreaking technologies used to reduce the disease transmission.

Module 4

- Describe the burden of noncommunicable diseases.
- Explain the risk factors associated with chronic diseases.
- List the different modifiable and non-modifiable risk factors for chronic diseases.
- Draw a connection between poverty and prevalence of noncommunicable diseases.
- Explain how blood flows through the body
- Describe the burden of cardiovascular disease globally
- Outline the basic anatomy of the cardiovascular system
- Describe the types of cardiovascular diseases
- Differentiate between a stroke and heart attack
- Explain the technologies used to diagnose heart disease
- Contrast angioplasty from stent placement
- Describe the different technologies used to treat cardiovascular diseases.
- Outline the process of drug approval through the Federal Drug Administration.
- Outline the various ways to detect cancer early.
- Describe how cancer develops from abnormal cells.
- Differentiate between abnormal cells and normal cells.
- Explain how tumors form - benign and malignant types.
- Describe the types of treatment used for several different cancers.
- Describe the burden of cancer disease in developing and developed countries.
- Contrast asthma from COPD.
- List and describe the five common types of respiratory diseases.
- Describe the different ways to treat various respiratory diseases.
- Explain why respiratory diseases are a leading cause of death worldwide.

Module 5

- Describe how medical technology impacts global health
- Explain the need to have advancements in medical technology
- Define global health actors and their role in health research funding
- Provide examples of different medical technology innovations, unique to global health
- Explain the 13th Programme of Work and top threats to global health.
- Describe the different ways funding agencies can decide which technologies to research and develop.
- Describe the importance of strategizing before research and developing medical technologies.
- Explain how the Grand Challenge Initiative Promotes Strategic Advancements in Medical Technology.
- Explain what affects the spread of technology.
- List the major parts of the technology adoption curve.
- Explain how the technology adoption curve relates to health outcomes.
- Describe how technology spreads in developing countries versus developed countries.
- Provide examples of digital interventions
- Describe how health interventions are financed
- Define global health interventions and their importance
- Provide examples of some important health interventions over time
- Outline how these constraints apply to real scenarios like Tuberculosis

- Describe the different constraints when developing medical technologies
- Explain barriers health professionals face when adopting medical technologies
- Describe how medical technologies have evolved
- Explain global health technology standards and their benefits
- Explain the need for specific products and how this can be accomplished

Module 6

- Describe the three broad ethical issues in world health.
- Explain the explosion of International Research and associated impacts.
- Define ethics and how it impacts various stages of health research and human rights.
- Define human rights
- List the common types of human rights
- Describe the connection of health care to human rights
- Explain the global initiatives used to support universal human rights
- Describe what is a clinical trial
- Explain the four phases of a clinical trial
- Identify the different types of a clinical trial
- Contrast an experimental study from an observational study
- Define sample size and practice estimating sample size
- Explain the different parameters used to determine sample size
- Compare and contrast the different ways to analyze results from a clinical trial
- Define the Nuremberg code of ethics as it relates to the Nazi experimentation.
- Describe major historical events where unethical practices were used in clinical research.
- Explain how historical events in clinical research led to the development of ethical principles.
- Define and describe informed consent
- Describe how the informed consent process works
- Outline the purpose of the Institutional Review Board
- Explain the major components that support ethics in clinical research

Module 7

- Compare and contrast a health disparity from a health inequity.
- Describe the WHO's characterization of universal health coverage.
- Explain the impact of health disparities on the access to health care.
- Contrast the differences between income and wealth
- Describe the impact of economic status on access to health care
- Explain the different ways to describe poverty as a function of income
- Compare how the WHO and United Nations are working to end poverty
- Explain healthcare delivery
- Describe and define a healthcare system
- Describe the types of patient care that is provided
- Differentiate among the parts of a healthcare system
- Describe the importance of using health system models
- Compare and contrast the Beveridge and Bismarck Models
- Describe the health system that the United States uses.

- Compare and contrast the National Health Insurance and Out-of-Pocket Models.
- Contrast the GDP, GNI, and GNP.
- Describe the purpose of analyzing the Gini Index.
- Explain how various countries pay for health care.
- Explain how a country's economy is tracked and monitored over time.
- Describe health measure outcomes and their importance to the availability of care.

Module 8

- Define global cooperation.
- Describe the ways to achieve effective global cooperation on initiatives.
- Explain the importance of global cooperation to achieve global health outcomes.
- Describe what it means to research a global health problem
- Contrast positive and negative trends currently in global health
- Explain what is a trend and how this connects to global cooperation
- Describe the scientific method and the steps
- Construct different types of hypothesis statements
- Describe the purpose of making a causal inference
- Explain how the scientific method is connected to global health
- Explain the different ways to analyze results
- Describe the influence of variables on the creation of a hypothesis
- Contrast the differences between independent and dependent variables
- Contrast how bar graphs are different from frequency distribution graphs
- Define data in the context of global health.
- Explain the importance of data and why it is used.
- Contrast the differences between data and information.
- Describe databases and how they are used in global health.
- Describe the importance of health communication
- Compare and contrast health literacy and health education
- Explain how results are disseminated through health education and health literacy
- Describe the relationship of health literacy level to the health outcomes of an individual

Video Game Design

Module 1

- Explore the early history of computer games.
- Explore the rise of and the Golden Age of arcade video games.
- Recount the difficulties and progress of creating home video consoles.
- Explain and compare video game genres.
- Describe how advances in computer technology and the internet allowed the development of multiplayer games.
- Explain the existence of foreign elements and symbols in video games.

Module 2

- Explain the purpose and importance of having a plan.
- Begin a Game Design Document (GDD).
- Explain the reason to establish the target audience.
- Describe the importance of having a purpose, or ultimate objective, for a game.
- Explain the meaning of and importance of having a strong story in a video game.
- Describe the importance of character development in video games.
- Explain the use of scenarios and levels in a video game.
- Describe the importance to the story of a well-formed ultimate objective.
- Identify the parts of a video game and how they may be protected.
- Explain the principles and ethics protecting intellectual properties.

Module 3

- Choose a suitable design for the video game, write a story as the basis of the game, and develop a storyboard to communicate the levels.
- Create a story map for a new video game.
- Write pseudocode for video game functions.
- Write a prototype of a new video game.
- Recognize the importance of logic and physics in game design.
- Understand the value of working with a team to create projects.
- Participate in a group to critique progress on game design.
- Establish communications methods for the effective and timely transfer of information between team members.
- Assemble the software suite for the video game project.

Module 4

- Explain the use and features of a game engine.
- Choose and install a game engine.
- Explain the differences between vector and raster graphics.
- Evaluate, install, and learn to use graphics creation software.

- Understand the purpose and importance of prototyping.
- Know the three basic forms of prototyping and the purpose of each.
- Use a game engine to prototype a video game.
- Evaluate the game design and its mechanics by playing the prototype game.
- Demonstrate knowledge of programming languages suitable to game development.
- Know the purpose of scripting elements such as HTML, CSS, and SQL.
- Demonstrate an understanding of programming situations, including decision-making, use of data, random-number generation, and events.
- Understand the concept of object-oriented programming.
- Demonstrate knowledge of compiling, debugging, and porting a program.

Module 5

- Understand principles of game design and how they apply to video games.
- Describe ways in which the game designer must communicate with the player.
- Understand player intentionality and its effect on player satisfaction.
- Understand the importance of beginning to end consistency.
- Explain the various aspects of video game design that ensure player engagement.
- Evaluate a video game and write a critique using a rubric of your own design.

Module 6

- Understand the various visual elements of a video game.
- Create backgrounds for your video game.
- Understand the basics of character design.
- Create four poses for your main character.
- Understand the basics of animation, especially as they apply to video games.
- Create a set of animation sprites.
- Understand the differences between 2D artwork and 3D models.
- Explain the special requirements of 1st person animations in 3D games.
- Understand the use of supporting graphics, such as titles, credits, menus, and scoring graphics
- Understand the process of adding sound to a game, including music and sound effects.

Module 7

- Explain the user's viewpoint and how it is controlled by camera views and angles.
- Understand the meaning of and strategies for artificial intelligence in video game characters.
- Understand what it means to give the player control of the game.
- Demonstrate understanding of techniques for creating a realistic video game.
- Understand how to choose a level of realism for your game.
- Understand the tradeoff between realism and playability
- Understand why the game must be winnable.

Module 8

- Survey character traits needed for careers in video game development.
- Update the Game Design Document.
- Find information concerning job training for careers in video game design and development
- Develop soft skills for employment in the video game industry.
- Create documents for seeking employment in the video game industry.
- Research various careers in the video game industry.
- Understand the process of turning a desire to develop games into a successful business.
- Identify strategies to make money from video games.
- Submit your video game to review by a group.
- Review and critique other students' video games.

Human Resources Management

Module 1

- Understand the basic role and responsibilities of a Human Resource Professional.
- Understand the core skills of a Human Resource Profession.
- Explain the human resource function within an organization.
- Know what it takes to be a Human Resource Professional.
- Understand the importance of analysis and assessment within an organization.
- Explain and create a vision statement.
- Understand how to reinforce current strategies and implement new strategy.
- Understand how to create a job description.
- Explain how to match an applicant to a job using job analysis.
- Understand how salaries are determined.
- Understand regulations associated with employee compensation.
- Explain fair wage practices.
- Create a Resume.
- Review resumes for open positions.
- Conduct effective interviews.
- Explain internal and external recruiting processes.
- Understand pre-employment screening.
- Describe next steps once a new employee is hired.
- Explain importance of on the job training.

Module 2

- Understand employee rights
- Understand employer responsibilities
- Understand how executive orders affect human resources
- Explain how social and political issues affect human resources
- Explain Equal Employment Opportunity Commission rules and regulations
- Explain social and political issues in today's workplace
- Understand HR's role in dealing with social and political issues
- Identify key components of a company handbook
- Explain Code of Conduct
- Understand acceptable behavioral conduct in the workplace
- Define Confidentiality
- Define Alternative Dispute Resolution
- Explain Conflict of Interest
- Understand employee discipline plans.
- Explain process of terminating an employee.

Module 3

- Create a comprehensive employee benefit package.
- Understand factors involved in creating employee benefits.

- Explain what federally mandated benefits are.
- Understand key federally mandated benefits.
- Understand employee discretionary benefits.
- Explain common employee discretionary benefits.
- Understand investing in employees holistically.
- Understand how ancillary services work.
- Explain common ancillary services offered to employees.
- Understand paid time off.
- Explain benefits of paid time off for employers and employees.
- Understand task of creating a safe work environment.
- Explain ways to prevent workplace hazards.
- Explain how to handle workplace incidents.
- Understand the function of unions
- Explain the unionization process
- Explain collective bargaining
- Summarize major federal labor relation laws

Module 4

- Explain the human resource functions of training and development.
- Understand how to analyze employee training needs.
- Understand why and when to implement training programs.
- Create an employee appraisal program.
- Explain how to effectively coach and evaluate employees.
- Understand organizational change and how it impacts employees.
- Explain the causes of organizational change.
- Understand strategies of managing through change.
- Understand the need for and impact of diversity in the workplace
- Explain ways to engage diversity
- Understand the importance of developing employees
- Explain career development
- Understand leadership development
- Explain international human resource issues
- Describe the responsibility of employing employees internationally

Accounting I

Module 1

- Describe the four forms of business organizations.
- Discuss the purpose and users of financial information.
- Understand the components and use of four financial statements.
- Discuss the purpose of accounting.
- Explain the importance of financial reporting.
- Describe 10 standards of generally accepted accounting principles (GAAP)
- Understand the purpose of the International Financial Reporting Standards
- Explain the purpose of the balance sheet
- Understand the accounting equation
- Define three categories on the balance sheet: assets, liabilities and equity
- Identify line items in each balance sheet category
- Explain the purpose of the income statement
- Define three categories on the income statement: revenue, expenses and profit
- Identify line items in each income statement category
- Define common stock and its purpose
- Describe the advantages and disadvantages of common stock
- Explain the purpose of the statement of the shareholder's equity and retained earnings
- Identify and discuss the main categories of the shareholder's equity and retained earnings
- Define and identify the purpose of the statement of cash flows
- Describe the main categories and line items in the statement of cash flows: operating, investing and financing
- Understand the components of the annual report

Module 2

- Define the accounting cycle.
- Discuss when financial transactions should be recorded.
- Analyze T-accounts and debit and credit transactions.
- Define journalizing, and identify the four parts.
- Explore the purpose of special journals.
- Prepare a chart of accounts.
- Journalize and post entries.
- Review the steps in a trial balance worksheet.
- Create a balance sheet, income statement, and statement of stockholders' equity and retained earnings from the trial balance worksheet.
- Compare and contrast permanent and temporary accounts.
- Define an income summary account.
- Post entries to close revenue and expenses.
- Explore three types of accounting software.
- Discuss the advantages and disadvantages of accounting software.
- Describe four factors to consider when purchasing accounting software.
- Define and explain artificial intelligence.

- Define an internal audit.
- Identify and explain four benefits of an internal audit.

Module 3

- Discuss the characteristics of cash
- Explain the purpose of internal control processes
- Describe internal control procedures
- Define and identify the use of petty cash
- Journalize petty cash transactions
- Explain the advantages and disadvantages of electronic transfers
- Define bank reconciliations and journalize bank transactions
- Define and explain liquidate
- Explore three types of unsecured credit
- Compare and contrast cash versus credit purchases
- Describe the purchasing process
- Explain credit and freight terms
- Post accounts payable transactions
- Explain how accounts payable affects the balance sheet and cash flow statement
- Define and explain liquidity relating to accounts payable
- Describe strategies to increase liquidity and free cash flow

Module 4

- Compare and contrast cash versus credit and debit card purchases
- Journalize three forms of customer payments
- Examine and journalize purchase discounts, returns, and allowances
- Define accounts receivable
- Explain the consumer credit application process
- Journalize accounts receivable purchases and payments
- Explain and discuss the purpose of the accounts receivable schedules
- Compare and contrast accounts receivable schedules
- Examine uncollectible receivables
- Explore the direct write off method
- Describe the transfer with recourse and transfer without recourse methods
- Explore two options to transfer accounts receivable
- Compare and contrast pledging versus factoring accounts receivable
- Explain the advantages and disadvantages of transferring accounts receivables
- Describe effective credit policies
- Understand the relationship between credit scores and interest rates
- Explain best practices in billing, payment, and collection

Module 5

- Describe six types of retailers
- Define inventory
- Discuss the disadvantages of holding excess inventory
- Explore the periodic inventory method.
- Calculate the cost of goods sold.
- Discuss the advantages and disadvantages of the periodic inventory method.

- Define perpetual inventory.
- Explore the advantages and disadvantages of perpetual inventory.
- Describe best practices in inventory management.
- Discuss the importance of inventory valuation.
- Describe and calculate the first in, first out inventory method.
- Explain the advantages and disadvantages of first in, first out.
- Define the last in, first out inventory valuation method.
- Describe the advantages and disadvantages of last in, first out.
- Calculate using the last in, first out method.
- Define and calculate the weighted average inventory valuation method.
- Describe and calculate the gross profit inventory valuation method.
- Explain the retail inventory valuation method.

Module 6

- Describe and characterize hourly workers
- Define salaried workers
- Explain independent contractors
- Describe the purpose of federal income taxes
- Define gross and net earnings
- Calculate gross and net earnings
- Explore the purpose of the Social Security Administration
- Define and calculate FICA
- Explain the benefits and disadvantages of payroll software and payroll servicing companies
- Journalize salary and payroll taxes
- Describe the purpose of the Wage and Tax statement
- Explain Form 1099
- Discuss payroll record retention requirements
- Describe five timekeeping options for employers
- Explain four record retention options for employers
- Define and compare the cash and accrual basis of accounting
- Describe the impact of payroll on financial statements using the cash and accrual basis
- Journalize payroll entries using the cash basis of accounting

Module 7

- Define ethics
- Explore a 5-step ethical model
- Analyze an ethical bribe scenario
- Examine the Securities and Exchange Commission
- Describe the Financial Accounting Standards Board
- Explore securities regulatory agencies
- Analyze the WorldCom accounting case
- Define insider trading
- Explain historical fraud cases involving Tyco, Adelphia, Enron and Arthur Anderson

- Define the purpose of the Sarbanes Oxley Act of 2002
- Discuss the Public Company Accounting Oversight Board
- Describe the sections within the Sarbanes Oxley Act of 2002
- Explore the purpose of the Governmental Accounting Standards Board
- Describe the concept standards
- Explain the type of financial statements used in government accounting
- Explore the International Financial Reporting Standards (IFRS)
- Discuss the similarities and differences between IFRS and GAAP

Module 8

- Explore for-profit schools
- Describe public higher educational institutions
- Compare and contrast all three educational institutions
- Examine accounting certificates, education, careers, and salaries
- Describe different types of accounting degrees, educational requirements, careers, and salaries
- Discuss the education requirements of a certified public accountant
- Explain the state licensing requirements
- Examine the responsibilities and duties of a certified public accountant
- Explain the educational and experience requirements to sit for the certified management accountant (CMA) exam
- Explore the CMA exam sections
- Discuss the career opportunities and salaries of CMAs
- Explore the requirements and benefits to sit for the Certified Fraud Examiners certification
- Describe the Accounts Receivables and Payables Management certifications
- Explain the Certified Payroll Professional designation
- Explain the difference between public and private accounting careers
- Discuss the advantages and disadvantages of both types of careers

HS Health

Unit 1

- Explore health information.
- Develop evaluation standards for health information.
- Analyze methods for the prevention of communicable and noncommunicable diseases.
- Explore the warning signs for seeking medical attention.
- Evaluate the impact of physical activity and diet on health.
- Explore the relationships between physical nutrition and body composition.
- Analyze the impact of diet on disease.
- Analyze the relationships between fitness and physical, social, and mental health.
- Explore tips for pursuing consistent physical activity.

Unit 2

- Explore perspective-taking tools.
- Understand ways to show respect and express empathy for others' feelings.
- Explore three primary forms of communication.
- Identify the most effective forms of communication for conflict resolution.
- Analyze how adverse childhood experiences impact brain development.
- Explore tools for overcoming negative events such as trauma.
- Understand the reasons people consider suicide.
- Explore the risk and protective factors for suicide.

Unit 3

- Explore safety techniques to prevent and treat general injuries.
- Explore strategies for avoiding violence, weapons, human trafficking, and gangs.
- Assess the dynamics of gang behaviors.
- Understand common digital communication risks.
- List strategies for avoiding online communication risks.
- Analyze how exposure to family or domestic violence can influence negative reactions such as cyclical behaviors.
- Explore the effects of bullying.

Unit 4

- Explore the short- and long-term impacts of drug use and misuse.
- Analyze the role drugs and alcohol play in unsafe situations.
- Explore methods for preventing the misuse of prescription and OTC drugs.
- Explore various substance abuse treatment options.
- Identify why reporting drug abuse is often the best choice.

- Explore methods for reporting the use of drugs to trusted adults.

Unit 5

- Explore strategies for developing healthy dating relationships.
- Analyze how a healthy sense of self and safe boundaries provide a foundation for healthy dating.
- Analyze the characteristics of unhealthy and harmful relationships.
- Explore negative factors such as social pressure and substance abuse that can lead to making harmful decisions about personal boundaries.
- Analyze reproductive and sexual health, including puberty, fertilization, and fetal development.
- Analyze the transmission, signs, and symptoms of STDs and STIs.
- Explore the effectiveness, risks, and failure rates of various contraceptives.
- Analyze and list the risks associated with early sexual activity.
- Identify the importance of telling a parent or trusted adult if signs of pregnancy occur.
- Identify the benefits and effectiveness of abstinence.

7th and 8th Grade Health

Unit 1

- Describe the nervous system and its functions.
- Describe the cardiovascular and lymphatic systems and their functions.
- Describe the respiratory and urinary systems and their functions.
- Describe the digestive and endocrine systems and their functions.
- Describe the integumentary system and its functions.
- Describe the immune system and its purpose.

Unit 2

- Describe challenges to good health in each stage of life.
- Describe the importance and reasons for lifelong health education.
- Discuss the importance of developing positive health habits.
- Understand the role of preventive health measures in lowering the risk of illness.
- Describe the different types of preventive health measures.
- Know the difference between communicable and noncommunicable diseases.
- Describe risk factors for communicable disease.
- Understand community health resources and how they can be accessed.
- Describe how to support those with long-term physical health conditions.
- Understand the idea of wellness care.

Unit 3

- Understand the body's nutritional needs.
- Discuss the different nutrients needed by the body.
- Understand the different nutritional values used to describe healthy intakes of different nutrients.
- Define serving sizes.
- Learn how to read and interpret a food label.
- Develop an approach to eating healthy in different settings.
- Decide healthy portion sizes.
- Describe the short- and long-term effects of convenience foods and sugary beverages.
- Understand the cycle of hunger and satiety and how it is disrupted by sugary foods.

Unit 4

- Know the Centers for Disease Control and Prevention guidelines for physical activity.
- Describe how to balance caloric intake with physical activity.
- Compute basal metabolic rate (BMR).
- Use an activity factor to figure daily caloric needs.

- Understand the mental, physical, and social benefits of proper nutrition and physical activity.
- Apply the CDC guidelines for physical activity to develop a physical fitness plan using appropriate technology.
- Develop and examine progress of short- and long-term goals toward achieving appropriate levels of physical activity, improving physical fitness, and making healthy food choices.
- Explain how media influences buying decisions regarding physical fitness equipment or nutritional products.
- Analyze risk factors that may lead to the development of chronic conditions.
- Analyze the impact of physical activity and healthy dietary practices in preventing chronic conditions, including obesity, heart disease, and diabetes.

Unit 5

- Explain how to stay safe in various situations, including fire hazards and weapons hazards.
- Explain how to stay safe in various situations, including fall hazards and weather hazards.
- Demonstrate basic first aid procedures for injuries.
- Explain how to evaluate victims to determine necessary actions.
- Describe evaluating an unconscious victim.
- Describe recognition and treatment for seizures.
- Explain choking rescue.
- Describe treatment for shock.
- Identify possible hazards in the home.
- Identify factors that keep the home from feeling safe and secure.
- Describe the factors that affect individual and community health.
- Understand the efforts of government agencies to provide a healthy environment.
- Understand the contributions of city and county governments to provide a safe and healthy community.

Unit 6

- Demonstrate techniques for becoming aware of risks.
- Explain how risks can be avoided to prevent injury.
- Describe the dangers associated with a variety of weapons.
- Apply strategies for avoiding the dangers of weapons and violence.
- Explain the importance of following rules prohibiting possession of drugs and weapons on the school campus or other public facilities.
- Describe the various dangers of social media.
- Identify strategies to resist inappropriate digital and online behavior.
- Recognize the various forms of bullying.
- Explain why bullying is so serious.
- Recognize strategies for combating bullying and cyberbullying.
- Explain why bullying should be reported.
- Define safe haven and identify designated safe haven locations in the community.

Unit 7

- Describe the three categories of prescription drugs.
- Describe the purpose of over-the-counter drugs.
- Analyze the effects of misusing prescription and over-the-counter drugs.
- Explain the consequences of misusing and abusing drugs.
- Understand the dangers of alcohol use, including alcohol use disorders.
- Understand the short- and long-term consequences of alcohol addiction.
- Explain the short- and long-term effects of tobacco use.
- Describe the harm created by secondhand smoke.
- Recognize the signs and symptoms of drug use.
- Describe what to do when drug use is suspected.
- Analyze addiction and its consequences and treatment.

Unit 8

- Describe the influences that affect drug, alcohol, and tobacco use.
- Recognize strategies for avoiding peer pressure to use drugs, alcohol, and tobacco.
- Demonstrate avoidance strategies and refusal skills regarding drugs, alcohol, and tobacco.
- Understand issues and dangers with alcohol, drugs, and tobacco.
- Describe the legal consequences of drug, alcohol, and tobacco misuse and abuse.
- Describe support systems for people with addictions.
- Describe methods for reporting suspected abuse to authorities.
- Analyze the importance of alternative activities to drug, alcohol, and substance use and misuse on mental and social health.

Unit 9

- Identify attributes of positive mental health and well-being.
- Evaluate the influence of social groups on mental health.
- Describe the importance of relationships and personal communication.
- Examine ways to influence peers positively.
- Describe the difference between stress and anxiety.
- Describe anxiety disorders.
- Describe signs and symptoms of depression.
- Know the warning signs of suicide.
- Recall the number for the National Suicide Prevention Lifeline.
- Describe the application of effective coping skills.
- Describe methods of communicating emotions.
- Identify and describe types of eating disorders.
- Describe the consequences of disordered eating and eating disorders.

Unit 10

- Compare and contrast friendship, dating/romantic relationships, and marriage.

- Describe the difference between infatuation and real love.
- Describe healthy ways to express friendship, affection, and love.
- Relate the importance of a healthy sense of self and its connection to setting personal boundaries.
- Describe methods of communicating emotions in romantic relationships and marriage.
- Understand and evaluate the importance of dignity, respect, and support in romantic relationships and marriage.
- Describe the benefits of marriage.
- Recognize the dangers of unwanted sexual activity and create strategies for avoiding it.
- Describe and demonstrate refusal skills that reinforce personal boundaries.
- Recount strategies to avoid unwanted sexual advances or pressure.
- Analyze the consequences of early sexual activity.
- Describe the physical symptoms of STDs/STIs.
- Understand the legal consequences of different types of sexual activity.
- Describe, compare, and contrast the physical, hormonal, and emotional changes in males and females during puberty and adolescence.
- Describe how the process of fertilization occurs.
- Describe emotional changes that are related to pregnancy and childbirth.
- Set life goals and create a plan for reaching them.
- Consider behaviors that will sabotage your life goals.
- Achieve life goals to positively affect mental health.

Commercial Photography I

Module 1

- Understand the role that aperture plays in getting the correct exposure in a photograph.
- Create images with a shallow or deep depth of field by controlling aperture settings.
- Understand the role that shutter speed plays in getting the correct exposure in a photograph.
- Create images with blurred and frozen motion by adjusting the shutter speed settings on a camera.
- Understand the role that ISO plays in getting the correct exposure in a photograph.
- Create images in low light by adjusting ISO settings on a camera.
- Understand the relationship between ISO, shutter speed, and aperture.
- Identify the parts of the inside of a camera.
- Understand the casting process.
- Identify common types of cameras and their unique uses.
- Understand how cameras work.
- Explore the different types of camera lenses and their various uses.
- Understand the concept of focal length.

Module 2

- Identify the various elements of art.
- Describe the characteristics of the elements of art.
- Create images using the elements of art to enhance a photo.
- Identify the various principles of design.
- Describe the characteristics of the principles of design.
- Create images using the principles of design to enhance a photo.
- Understand how the principles of design use elements of art.
- Define composition.
- Understand various photographic compositional techniques.
- Describe the difference between a snapshot and a composed image.
- Understand the basics of color theory.
- Identify the parts that make up a color.
- Describe various color relationships.
- Adjust color settings on a camera and digital image editing program.
- Understand the importance of having intentionality and a focal point in an image.
- Describe the difference between a subject and a focal point.
- Understand the importance of the critique in order to learn and grow as a photographer.
- Describe the different phases of the critiquing process.

Module 3

- Understand the basics of posing.

- Compare and contrast posed and candid photographs.
- Define terms associated with posing.
- Describe the skills required to be a successful commercial photographer.
- Understand the importance of communication and preparation.
- Identify the best practices for a successful photoshoot.
- Identify skills needed when posing different types of images.
- Describe best practices when posing for various types of photos.
- Identify the duties of a stylist or set director.
- Understand how to style various images.
- Understand the basics of creating an image that tells a story.
- Identify the elements of a story.

Module 4

- Identify the properties of light.
- Compare and contrast hard and soft light.
- Understand the inverse square law.
- Identify different lighting positions.
- Describe how a light's position can change a photo.
- Create images using different light positions.
- Define composition.
- Understand various photographic compositional techniques.
- Describe the difference between a snapshot and a composed image.
- Understand the basics of color theory.
- Identify the parts that make up a color.
- Describe various color relationships.
- Adjust color settings on a camera and digital image editing program.
- Understand the importance of having intentionality and a focal point in an image.
- Describe the difference between a subject and a focal point.
- Define off-camera flash.
- Evaluate off-camera flash connection methods.
- Understand the importance of off-camera flash.
- Describe methods of synchronizing cameras to flashes.

Module 5

- Identify the building blocks of digital images.
- Compare and contrast raster and vector graphics.
- Understand the basics of digital image editing.
- Recognize the need for different file formats.
- Describe the difference between shooting RAW and JPG.
- Analyze various file formats.
- Analyze various ways to edit an image.
- Remember key terms associated with retouching.
- Understand concepts related to retouching.
- Describe basic retouching techniques.
- Understand the basics of copyright law.
- Define permissions granted by copyright ownership.
- Compare and contrast fair use against copyright infringement.

- Describe the concept of public domain.
- Understand the importance of licensing for a commercial photographer.
- Differentiate between various types of licenses.
- Describe how the Creative Commons works.
- Develop an understanding of how photography and editing can have ethical ramifications.
- Compare and contrast ethical and unethical editing.

Module 6

- Identify different individuals involved in the evolution of photography.
- Identify key moments in the history of photography.
- Summarize the history of photography.
- Understand how various events have shaped photography into what it is today.
- Recognize various camera brands and their impact on the history of photography.
- Identify important camera releases.
- Understand how camera technology has evolved over time.
- Analyze iconic photos from history.
- Understand the importance of certain images on the history of photography.
- Identify important photographers from the history of photography.
- Analyze the style of master photographers.
- Identify and describe various photography-related emerging technologies.
- Understand the importance of keeping up with technology in a career field.

Module 7

- Make connections between photography and the world of marketing.
- Compare and contrast different advertising strategies.
- Understand the basics of marketing.
- Explain the importance of a target audience.
- Analyze advertisements to determine the target audience.
- Explain how to use demographics to create a target audience.
- Analyze various ways to edit an image.
- Remember key terms associated with retouching.
- Understand concepts related to retouching.
- Describe basic retouching techniques.
- Identify the phases of project management.
- Categorize various roles of a team in a production.
- Understand the importance of setting S.M.A.R.T. goals.
- Understand the costs associated with running a photography business.
- Identify factors that determine pricing.
- Describe and evaluate various pricing methods.

Module 8

- Compare and contrast jobs and careers.
- Identify types of photography and photography-related career fields.
- Identify different ways to get started as a photographer.

- Understand the importance of networking and assisting.
- Understand the importance of a résumé when it comes to employment.
- Organize life experience into different sections.
- Differentiate between color modes, color profiles, and color spaces.
- Understand the basics of color management.
- Compare and contrast different color modes.
- Examine the process of preparing an image for print.
- Understand the basics of matting, mounting, and framing.
- Compare and contrast different types of photo paper.
- Understand the basics of portfolio creation.
- Compare and contrast print and digital portfolios.
- Determine what items should be in a portfolio.

Commercial Photography II

Module 1

- Understand the importance of inspiration in the creative industry.
- Examine various sources of inspiration.
- Identify methods of finding inspiration.
- Identify different barriers to a career as a photographer.
- Describe methods of overcoming obstacles to career success.
- Develop a unique photographic style.
- Identify methods a photographer can use to create a style.
- Critique your own work.
- Differentiate different drive mode settings.
- Solve problems associated with taking self-portraits.
- Describe how taking self-portraits can help a photographer learn new skills and techniques.
- Explain the importance of an artist's statement.
- Organize content into an artist's statement.
- Self-evaluate a body of work.

Module 2

- Understand the basics of dynamic range.
- Analyze exposure value and exposure compensation.
- Compare and contrast different metering modes.
- Understand the process of bracketing exposures.
- Create an image with a high dynamic range.
- Identify best practices for creating architectural photos.
- Understand the importance of perspective.
- Understand the importance of the design process.
- Identify the phases of the design process.
- Describe how taking self-portraits can help a photographer learn new skills and techniques.
- Describe the process of creating a composite image.
- Create a simple composite.

Module 3

- Understand why professionalism in the workplace matters.
- Identify various behavior patterns that make for a valued employee.
- Compare and contrast communication channels and methods.
- Describe the four methods of communication.
- Understand when and how to adapt professional communication strategies.
- Understand the importance of email in a professional setting.
- Identify the parts of an email.
- Examine how tone can affect written communication.
- Understand the importance of workplace etiquette.
- Identify workplace behaviors that lead to promotions.

- Describe rules and regulations that lead to a safe workplace.
- Understand the importance of a headshot for a professional.
- Identify lighting, posing, and editing practices for creating headshots.

Module 4

- Compare and contrast various technology applications.
- Identify positive internet behaviors.
- Understand how different programs share data and information.
- Understand the importance of creative problem-solving in future careers.
- Examine creative problem-solving strategies.
- Identify situations that need creative problem-solving.
- Recognize methods of ideation.
- Explain photographic series and their importance to photographers.
- Understand how to create a cohesive series.
- Understand the importance of criticism to learn and grow as a photographer.
- Evaluate photographs using photographic knowledge such as the principles of design.
- Identify benefits of critiquing.
- Compare and contrast various presentation methods.
- Describe how a presentation can be influenced by audience and content.
- Examine best practices for presenting creative work.

Module 5

- Understand the importance of quotes and invoices in the payment structure.
- Define different licensing methods including creative commons.
- Understand what is considered acceptable use when interacting with clients.
- Understand the importance of contracts in the commercial photography industry.
- Describe the different types of releases.
- Recognize the information normally contained within a contract.
- Examine certain rights photographers are granted by law.
- Compare and contrast taking photos on public and private property.
- Understand how a photo’s intended usage can affect requirements.
- Evaluate different methods of pricing photography.
- Understand the importance of charging for photography.
- Identify various costs that comprise a photographer’s fee.
- Compare and contrast different stock photography websites.
- Explain best practices for creating best-selling stock photos.

Module 6

- Explain the importance of keeping a budget.
- Compare and contrast different forms of income and expenses.
- Describe the process of creating a budget.
- Identify different business structures.
- Evaluate businesses using the S.W.O.T. method.
- Explain the different parts of a business plan.

- Recognize the best practices in creating agendas.
- Compare and contrast different meeting roles.
- Analyze parliamentary procedure.
- Identify the traits of effective leaders.
- Understand the importance of workplace safety.
- Compare and contrast different leadership styles.
- Explain the job application process.
- Compare and contrast jobs.
- Identify best practices for job interviews.

Module 7

- Explain the process of culling.
- Compare and contrast methods of image storing.
- Understand when to use tethering.
- Compare and contrast file formats.
- Identify best practices for naming files.
- Examine different color spaces.
- Recognize the best practices in delivering images.
- Identify different photography delivery methods.
- Compare and contrast common photographic papers.
- Identify aspects of layout design and recognize how they apply to photography.
- Understand how the principles of art and design apply to the world of photography.
- Explain the purpose of a creative brief.
- Identify the components of a creative brief.

Module 8

- Compare and contrast different college degrees.
- Identify methods to help pay for college.
- Evaluate college entrance exams.
- Identify various ways to prepare a young person for future success.
- Compare and contrast different types of post-secondary education.
- Explain the importance of education.
- Summarize the history of commercial photography.
- Analyze how commercial photography changed in different time periods.
- Identify key points in the evolution of commercial photography.
- Review the basics of portfolio creation.
- Understand the basics of search engine optimization.
- Identify reasons to update a portfolio.
- Review the basics of building a résumé.
- Select and organize personal accomplishments.
- Understand the importance of updating a résumé.

Graphic Design and Illustration I

Module 1

- Understand the history of art across culture and time.
- Explore general characteristics in artwork from a variety of cultures.
- Understand how graphic design and illustration fit within a greater artistic context.
- Summarize the history and evolution of graphic design and illustration.
- Understand the importance of design systems to the field of graphic design.
- List the qualities of most professional design systems.
- Learn the many forms of art media.
- Contrast physical media to digital media.
- Learn the importance of and ways to express customer-client professionalism.
- Explore the steps of design planning.
- Explore key communication and presentation skills.
- Practice your presentation skills in front of the class.

Module 2

- Explore the basics of illustration applications.
- Learn the basic illustrator workspace.
- Learn the primary tools of most illustration applications.
- Learn how to draw using varying tools available in most illustration applications.
- Understand the communication strategies of design.
- Learn the key rules of communication in design.
- Explore the six principles of design.
- Practice identifying the principles of design in graphics.
- Apply technology to create an original work of art.
- Use good composition and apply learned elements of design.

Module 3

- Identify the common skills needed in the professional graphic design world.
- Identify available education and certifications for graphic design and illustration.
- Take a free graphic design training course or tutorial.
- Identify useful career and technical student organizations for graphic design.
- Explore the design elements of color, line, and shape.
- Apply the design elements in a real-world project.
- Practice using the design elements in a brochure.
- Understand and apply the design elements of texture, scale, and form.

Module 4

- Explore the creative design process.
- Learn ways to increase creativity.
- Understand the basics of typography, including terms.
- Practice typographical design.

- Use the design process to create your own font.
- Apply principles of typography.
- Explore the basics of perspective drawing.
- Demonstrate one-point, two-point, and three-point perspective drawing.
- Explore and practice anatomical figure drawing.
- Explore the steps for designing a product label.
- Apply art elements to print media.

Module 5

- Understand the basics of color theory.
- Explore common color scheme terms and styles.
- Explore various professional color skills.
- Explore how to use color in most illustration applications.
- Practice designing with color schemes by creating album art.
- Explore the value of a critique.
- Understand how to effectively give and receive an art critique.

Module 6

- Understand ethical considerations when working with art and design technology.
- Explore copyright laws and acceptable use policies.
- Understand the need for giving proper credit to artists and creators.
- Learn ways to properly credit artists.
- Learn best practices for maintaining client confidentiality.
- Explore ways to secure digital data.
- Explore various art styles.
- Practice imitating an artist's style of your choosing.
- Analyze the impact of advertising and visual communication on society.
- Explore and apply cybersafety procedures.

Module 7

- Explore career opportunities in graphic design and illustration.
- Examine opportunities in graphic design and illustration entrepreneurship.
- Explore technical and professional skills required by business and the design industry.
- Explore the basics of printing as it relates to graphic design and illustration.
- Understand the importance of design proposals.
- Practice creating a design proposal for an existing organization.
- Apply mathematics and understand its use in the graphic design process.

Module 8

- Explore techniques for graphic designers to find job placement in their career fields.
- Understand the professional importance of a cover letter and résumé.
- Learn how to professionally build a cover letter and résumé.

- Understand why interviews are important for job seekers.
- Explore ways to prepare for an interview.
- Understand the need for a design portfolio throughout your professional career.
- Explore steps for producing an effective art portfolio.

Kindergarten Art

Unit 1

- Fall Leaf Prints
- Paper Sculpture
- Colorful Still Life
- Squiggle Art Game

Unit 2

- Construction Paper Self-Portrait
- Bark Texture Prints
- Kandinsky Circle
- Stick Weave

Unit 3

- Shape Prints with Fall Colors
- Explore Art Around You
- Caterpillar Sculpture
- Colored Hand Animal

Unit 4

- Craft Stick Flowers
- Color Wheel Activity
- Paper Roll Turkey
- Explore an Artist

Unit 5

- Draw What You Value
- Decorated Santa Hat
- Paper Snowflakes
- Patterned Chain-Link Decorations

Unit 6

- Visit an Art Gallery
- Paper Plate Aquarium
- Painted Rock Ladybug
- Cultural Art

Unit 7

- Construction Paper Flag
- Color a Happy Memory
- Pointillism
- Decorative Picture Frame

Unit 8

- Paper Spring Flowers
- Art Around the World
- Continuous Line House
- Yarn Rainbow

Unit 9

- What Do Artists Do?
- Craft Stick Snake
- Paper Easter Eggs
- Paper Hand Flowers

Unit 10

- Exhibit Your Artwork
- Peer Review
- Colorful Still Life
- Craft Stick Animal

1st Grade Art

Unit 1

- Leaf Collage
- 3D Paper Rocket Ship
- Colorful Still Life
- Squiggle Art Game

Unit 2

- Self-Portrait with a Crown
- Paper Rolle Finger Puppets
- Paul Klee Portrait
- Craft Stick Turtle

Unit 3

- Pumpkin Prints
- Explore Art Around You
- Popup Ladybug
- Colored Hand Animal

Unit 4

- Craft Stick Monsters
- Eye of Primary Colors
- Leaf Turkey
- Explore an Artist

Unit 5

- Draw What You Value
- Decorated Mittens
- Paper Snowflakes
- Patterned Chain-Link Decorations

Unit 6

- Visit an Art Gallery
- Paper Plate Fish
- Painted Rock Bee
- Cultural Art

Unit 7

- Paper Plate Flag
- Color a Happy Memory
- Pointillism
- Decorative Picture Frame

Unit 8

- Paper Spring Flowers
- Art Around the World
- Continuous Line Trees
- Yarn Sun

Unit 9

- What Do Artists Do?
- Craft Stick Snake
- Pipe Cleaner Easter Eggs
- Paper Roll Flower

Unit 10

- Exhibit Your Artwork
- Peer Review
- Colorful Still Life
- Craft Stick Animal

2nd Grade Art

Unit 1

- Fall Tree of Leaves
- Underwater 3D Paper Scene
- Colorful Still Life
- Squiggle Art Game

Unit 2

- Abstract Self-Portrait
- Jackson Pollock with Natural Brushes
- Kandinsky Circle Tree
- Craft Stick Butterfly

Unit 3

- Fall Leaf Prints
- Explore Art Around You
- Favorite Animal Popup
- Colored Hand Animal

Unit 4

- Craft Stick Bumblebees
- Umbrella Color Wheel
- Hand Turkey
- Explore an Artist

Unit 5

- Draw What You Value
- Paper Plate Christmas Tree
- Paper Snowflakes
- Patterned Chain-Link Decorations

Unit 6

- Visit an Art Gallery
- Paper Plate Aquarium
- Painted Rock Beetle
- Cultural Art

Unit 7

- Craft Stick Flag
- Color a Happy Memory
- Pointillism
- Decorative Picture Frame

Unit 8

- Paper Spring Flowers
- Art Around the World
- Continuous Line Animal
- Yarn Rain Cloud

Unit 9

- What Do Artists Do?
- Craft Stick Superheroes
- Paper Plate Easter Bunny
- Paper Roll Flower

Unit 10

- Exhibit Your Artwork
- Peer Review
- Colorful Still Life
- Craft Stick Animal

Digital Audio Technology

Module 1

- Develop an understanding of the beginnings of recorded sound.
- Identify the technological advances that made audio recording possible.
- Develop an understanding of the Electrical Era of audio recording.
- Identify the technological advances that improved recording techniques.
- Develop an understanding of the Magnetic Era of audio recording.
- Identify the technological advances that improved recording techniques.
- Develop an understanding of the Digital Era of audio recording.
- Identify the technological advances of the Digital Era.
- Identify the key advancements in technology that moved the recording industry from one era to the next.
- Identify historically significant recording studios and artists that recorded in them.

Module 2

- Define computer music.
- Understand the various ways computers have affected the music industry.
- Explain the ways computers are used in live performance.
- Explore the history and development of digital audio workstations.
- Understand the various components that make up a digital audio workstation.
- Understand the plug-ins and tools used in editing software.
- Identify the delivery formats used for digital audio.
- Identify the key components of a home recording studio.
- Identify the key components of a professional recording studio.
- Compare and contrast professional and home recording studios.
- Identify various ways in which the internet has impacted the recording industry.
- Understand how the internet is used in the recording industry.
- Understand what it means to go viral.
- Identify what factors lead to a viral video.
- Investigate how computers, the internet, and digital audio lead to viral sensations.
- Identify musicians that began as viral sensations.

Module 3

- Develop an understanding of the Federal Communication Commission, including the history, the mission, and how it is organized.
- Identify what is covered under the FCC jurisdiction.
- Identify the various types of intellectual property.
- Develop an understanding of copyright law.
- Investigate the ways copyright law applies to digital audio.
- Identify the legal aspects of digital streaming.
- Understand the effect digital streaming has had on the audio industry and society.

- Understand the ethical response to digital audio streaming as a consumer and as an audio industry professional.
- Investigate court cases and decisions that have impacted the recording industry.
- Understand professional communication as it relates to the audio industry.
- Develop professional communication skills necessary for audio industry employment.
- Identify the government agencies that govern workplace safety.
- Understand the various hazards within a recording studio and how to maintain a safe work environment.

Module 4

- Explore the various components of an audio console.
- Understand how each component affects the audio signal.
- Understand the different types of microphones, their pick-up patterns, and uses.
- Understand the various pieces of audio processing equipment and how they affect the audio signal.
- Understand how the audio processing equipment is used within a digital audio workstation software program.
- Identify the different categories of speakers.
- Understand the various types of speakers and their specific uses.
- Understand the uses and applications of MIDI.
- Understand MIDI equipment and controllers.
- Understand the proper way to connect a sound system.
- Understand the different types of cables used to connect a sound system.
- Identify the various accessories necessary to complete a quality sound system.
- Understand the various types of audio cables, different connectors, and the typical application of each.

Module 5

- Identify audio production stems and how they work together for the final production.
- Understand how effects are used to enhance an audio production.
- Explore the key elements that make up an audio script.
- Understand the process of writing a script.
- Understand how to format a script for readability.
- Understand how music can have an impact on the audience.
- Identify various musical styles and sound effects that create an intended emotional impact.
- Understand how to use sound effects to enhance the audio production.
- Understand how to use environmental sounds to enhance the audio production.
- Understand the different digital audio codecs.
- Identify the best use for each digital audio codec.

Module 6

- Identify the key stages in the audio production cycle.

- Investigate the various uses of a digital audio workstation during the audio production cycle.
- Understand the history of audio editing.
- Identify the key tools within a DAW that are used during audio editing.
- Understand the audio editing process and how it fits into the whole audio production cycle.
- Understand the first four steps of the audio mixing process and how it fits into the whole audio production cycle.
- Understand how a DAW is used for audio mixing.
- Understand the last four steps of the audio mixing process and how it fits into the whole audio production cycle.
- Understand how a DAW is used for audio mixing.
- Understand the first five steps of the mastering process and how it fits in the audio production cycle.
- Understand the last four steps of the mastering process and how they fit in the audio production cycle.
- Understand the various distribution formats for audio.

Module 7

- Identify the various career pathways in the audio production industry.
- Identify common audio professions that are in the production pathway.
- Identify other common audio professions.
- Identify current and future trends in the audio industry.
- Identify how the audio industry is being impacted by new technology.
- Identify various audio production degrees.
- Identify various audio production training and certificate programs.
- Understand the traits of a successful audio engineer in the audio production industry.

Module 8

- Identify the various professional standards expected of an audio engineer.
- Identify leadership, teamwork, and mentoring activities present in the audio engineer career.
- Understand the purpose and key elements of a professional cover letter.
- Identify what to include in a professional cover letter.
- Understand the purpose and key elements of a professional resumé.
- Identify what to include in a professional resumé.
- Understand the various ways to search for job openings in the audio production industry.
- Identify the key skills necessary for a successful interview.
- Understand the budgeting process for a recording studio.
- Identify budgeting programs that will increase productivity.
- Identify several certifications available in the audio production industry.

Human Growth and Development

Module 1

- Explore the role of theories in understanding human development.
- Describe theoretical perspectives that influence human development.
- Note specific historical influences on human development theories.
- Compare and contrast research methods commonly used to study human development.
- Identify the need for medical care, nutrition, and good health prior to and during pregnancy.
- Outline the stages of prenatal development.
- Explore the role of genetics in prenatal development.
- Determine environmental factors affecting the development of a fetus.

Module 2

- Explore the physical, emotional, social, and cognitive development of infants and toddlers.
- Analyze common developmental theories relating to infants and toddlers.
- Explore strategies for optimizing the development of infants and toddlers.
- Compare and contrast pedagogy and andragogy.
- Explore techniques that promote the health and safety of infants and toddlers.
- Analyze the physical, emotional, social, and cognitive development of preschoolers.
- Explore the influences of family and society on preschoolers.
- Analyze various developmental theories relating to preschoolers.
- Explore strategies for optimizing the development of preschoolers.
- Explore techniques that promote health and safety for children ages 3 to 5.

Module 3

- Analyze the physical, emotional, social, and cognitive development of children in the early- to middle-childhood stage of development.
- Explore various developmental theories relating to children in the early- to middle-childhood stage of development.
- Analyze techniques that promote the health and safety of children in the early- to middle-childhood stage of development.
- Analyze the physical, cognitive, emotional, and social development of adolescents.
- Explore theoretical perspectives relevant to adolescent growth and development.
- Determine techniques that promote the health and safety of adolescents.
- Determine developmentally appropriate guidance techniques for children in early to middle childhood and adolescents.

Module 4

- Explore agencies and services protecting children and adolescents.
- Analyze various resources available for children and adolescents.
- Analyze forms, causes, effects, prevention, and treatment of child abuse.
- Explain the importance of health care and safety for children and adolescents.
- Explore the responsibilities of citizens, public policy, and legislation for the health and safety of children and adolescents.

Module 5

- Analyze the biological development of early adults.
- Analyze the cognitive development of early adults.
- Analyze the emotional development of early adults.
- Analyze the psychosocial development of early adults.
- Explore the influences of society and culture on early adults.
- Explore the importance of family and social interaction for early adults.

Module 6

- Explore the biological development of middle adults.
- Explore the cognitive development of middle adults.
- Explore the emotional development of middle adults.
- Explore the psychosocial development of middle adults.
- Explore the influences of society and culture on middle adults.
- Understand the importance of relationships for middle adults.

Module 7

- Explore the biological development of late adults.
- Explore the cognitive development of late adults.
- Explore the psychosocial and emotional development of late adults.
- Explore the importance of good physical health during late adulthood.
- List ways that late adults can pursue good physical health.
- Explore the influences of society and culture on late adults.

Module 8

- Understand the importance of effective decision-making in the workplace.
- Explore problem-solving techniques.
- Develop professional leadership skills.
- Explore and acquire conflict management skills.
- Explore career opportunities in human growth and development.
- Update your professional portfolio with components such as a cover letter, résumé, and achievements.

Instructional Practices

Module 1

- Demonstrate an understanding of the important historical foundations of education in the United States, especially as they relate to instructional practices.
- Analyze the important historical foundations of training in the United States and their influence on industry and manufacturing.
- Define and demonstrate specific knowledge and skills of professional teachers and trainers to understand and connect with their students.
- Define and demonstrate specific personal characteristics of professional teachers and trainers to understand and connect with students and to improve instruction.
- Develop an understanding of the qualities and characteristics of highly effective schools.
- Study career options, opportunities, and educational pathways in the field of education and training.

Module 2

- Demonstrate an understanding of the relationship of the principles and theories of human development to teaching and training situations; participate in a field-based experience to apply the principles and theories.
- Demonstrate an understanding of the relationship of principles and theories of the learning process to teaching and training situations.
- Demonstrate an understanding of the behaviors and skills that facilitate the learning process.
- Demonstrate an understanding of the relationship between effective instructional practices and learning differences.
- Demonstrate an understanding of the relationship between effective instructional practices and learner exceptionality, partially in gifted and talented children.
- Demonstrate an understanding of the relationship between effective instructional practices and special-needs conditions, including students with disabilities.
- Create and deliver a lesson to meet the objectives as defined during collaboration with the internship lead teacher.
- To assess and reflect on the planning, teaching (delivery), and assessment of student learning.

Module 3

- Demonstrate effective verbal and nonverbal communication skills with students, colleagues, and parents.
- Demonstrate effective written and electronic communication skills with students, colleagues, and parents.
- Demonstrate the skills to communicate effectively with educators and colleagues.
- Demonstrate effective communication in situations with parents or guardians.
- Demonstrate an understanding of the relationship between effective classroom communications in promoting student literacy and learning.

- Demonstrate effective communication skills in teaching and training to promote learning for ELL students.
- Create and deliver a lesson to meet the objectives as defined during collaboration with the internship lead teacher with specific feedback on teacher communication.
- Assess and reflect on the planning, teaching (delivery) and an assessment of student learning with specific analysis of effective communication.

Module 4

- Understand the role of state standards to assist in lesson planning and evaluating instructional effectiveness.
- Demonstrate an understanding of the rationale of a fundamental knowledge of subject matter to plan and prepare effective instruction.
- Define and demonstrate the rationale and process of instructional planning.
- Demonstrate the principles and theories that impact instructional planning.
- Demonstrate the skill and understanding of the relationship between developmentally appropriate short- and long-term learning objectives.
- Demonstrate an understanding of teacher planning to meet instructional goals.
- Plan, develop, and deliver a lesson that identifies the principles and theories of psychology to support the methods to achieve the learning objectives.
- Assess and reflect on the process of planning and developing a lesson that identifies the principles and theories of psychology to support the methods to achieve the learning objectives.

Module 5

- Understand the principles and characteristics of a safe learning environment.
- Understand the principles and characteristics of an effective learning environment.
- Define, understand, and demonstrate the teacher and trainer characteristics that promote an effective learning environment.
- Define and demonstrate classroom management techniques.
- Understand and demonstrate conflict management and meditation techniques in the classroom.
- Plan, develop, and deliver a lesson that utilizes effective classroom management skills, including:
  - o quiet signals
  - o classroom procedures
  - o proximity
  - o transitions to and from group work
  - o verbal instructions for group work
  - o working the classroom
- To assess and reflect on the process of planning, developing, and delivering a lesson that utilized effective classroom management skills, including:
  - o quiet signals
  - o classroom procedures
  - o proximity
  - o transitions to and from group work

o verbal instructions for group work
o working the classroom

Module 6

- Define and demonstrate the role of assessment in the learning process.
- Define and understand the role of student assessment in the learning process.
- Define, understand, and demonstrate an analysis of the educational assessment process.
- Define and demonstrate assessment strategies used in the classroom and other instructional settings.
- Define, understand, and demonstrate the role of technology in the instructional process and for student evaluation/assessment.
- Define, understand, and demonstrate the technological applications appropriate for curriculum content, instruction, and student needs, including students with disabilities.
- Plan, develop, and deliver a lesson that utilizes technology to enrich or as a primary instructional tool. (The technological tools may be used by the teacher, the students, or both.)
- To assess and reflect on the process of planning, developing, and delivering a lesson that utilized technology to enrich, or as a primary instructional tool.

Module 7

- Define, understand, and demonstrate the characteristics of teachers and trainers that promote ethical conduct.
- Understand, analyze, and demonstrate the ethical standards of professional educators and their commitment to the students.
- Define, understand, and analyze situations requiring ethical and legal considerations.
- Define and analyze the expected effects of ethical compliance or noncompliance.
- Use specific team-building strategies to teach subject content as defined in the school's curriculum map.
- Assess and reflect on the process of planning, developing, and delivering a lesson that builds teamwork and recognizes the unique talents of each student.

Module 8

- Define, understand, and explain the relationship between school and society.
- Define, understand, and explain school resources for professional growth.
- Define, understand, and explain community resources for professional growth.
- Define, understand, and analyze the support of family and community services to promote learning.
- Define, analyze, and understand the historical significance of business and industry to promote learning.
- Plan, develop, and deliver a lesson that utilizes new learning methods, activities, and/or strategies that you learned by observing a teacher within your school.

- Assess and reflect on the process of planning, developing, and delivering a lesson that utilizes new teaching methods, activities, and/or strategies that you learned by observing a teacher within your school.

Lifetime Fitness and Wellness Pursuits

Unit 1

- Identify our need for physical fitness.
- Explore the relationship between physical fitness and wellness.
- Explore and apply the physical fitness principles of warm-ups.
- Explore and apply the physical fitness principles of cool-downs.
- Explore the fitness concepts related to the overload principle.
- Analyze basic biomechanical principles.

Unit 2

- Explain the difference between contact and noncontact sports.
- Explore common sports and fitness injury types.
- Explain the need for sports and fitness safety.
- List common kinds of sports and fitness equipment.
- Explore common equipment safety practices.
- Analyze the need for sports and fitness safety.
- List necessary sports and fitness safety practices.
- Understand situational awareness.
- Explain the need for situational awareness in sports and fitness.

Unit 3

- List the benefits of cardiovascular health.
- Explore common causes of cardiovascular disease.
- Explore ways to pursue cardiovascular health.
- Identify anaerobic exercise.
- Explore safe anaerobic exercise techniques.
- Understand the need for endurance and flexibility in fitness.
- Identify ways to build both endurance and flexibility.

Unit 4

- Identify the need for good hydration in fitness.
- Explain the relationship between hydration, physical activity, and environmental conditions.
- Explore the similarities and differences between aerobic and anaerobic exercises.
- Explore workouts that improve agility, balance, and coordination.
- Explore workouts that improve power, speed, and reaction time.

Unit 5

- Explore habits for achieving desirable sports and fitness results.
- List ways goals can be achieved safely.
- Explore how to make SMART goals.
- Identify techniques for monitoring personal fitness progress.
- Understand the importance and use of fitness logs and applications.
- Identify the difference between internal and external feedback.
- Explore ways for giving and receiving feedback effectively.

Unit 6

- Analyze the ways that physical activity benefits social health.
- Analyze the ways that physical activity benefits emotional health.
- Explore the benefits of sportsmanship.
- List ways to practice sportsmanship.
- Identify the difference between sportsmanship and gamesmanship.
- Identify sources of conflict in sports and fitness.
- Practice conflict resolution skills.

Unit 7

- Explore common myths about physical activity.
- Explore common myths about nutrition.
- Identify common sources of dietary and fitness trends.
- List common dietary and fitness trends.
- List the pros and cons of media health messages.

Unit 8

- Explore and use internet-related fitness resources and tools.
- Explore different kinds of health devices and technology.
- List the cons of health devices.
- Explore the positive and negative impacts of technology on social health.
- Explore the negative consequences of technology on emotional health.
- Analyze ways to prevent emotional health issues caused by social media.
- List resources available to those experiencing depression, anxiety, or thoughts of suicide.

Unit 9

- Explore the link between nutrition and body composition.
- Explore the link between nutritional practices and physical activity.
- Analyze how exercise impacts body composition.
- Explore the basics of a nutrition plan.

Unit 10

- Explore ways to stay disciplined with a fitness lifestyle.
- Explore various ways to pursue a healthy lifestyle.
- Explore methods for achieving personal fitness.
- Learn the steps for building a personal fitness program.

Digital Design and Media Production

Module 1

- Understand the four main purposes of communication.
- Identify which of the four purposes to use.
- Understand and identify a target audience for communications and design.
- Understand the importance of computer software in design.
- Identify tools that can improve written communication.
- Understand the importance of written communication to design and media.
- Understand and apply the principles of planning in communications.
- Identify and understand the laws regarding fair use and copyright as they pertain to research and creation.

Module 2

- Explore the first three elements of design including text, graphics, and white space.
- Explore three more elements of design including color, line, and shape.
- Identify three of the seven major design principles: contrast, balance, and dominant element.
- Identify the last four of seven design principles: consistency, repetition, alignment, and proximity.
- Explore typography qualities, standards, and techniques.

Module 3

- Understand the purpose of advertising.
- Identify the five main steps to creating an advertising campaign.
- Understand the importance of a SWOT analysis and how it helps advertisers and marketers better understand their audience.
- Identify the appropriate steps to developing a SWOT analysis.
- Identify the eight main forms of ad media.
- Understand the effect of cost on advertising.
- Understand how to choose the best and most effective form of ad media for various projects.
- Understand the pros and cons of radio and television advertisements.
- Apply knowledge of communication to radio and television mediums.
- Understand the benefits of print, digital, and web advertisements.

Module 4

- Understand the two main types of design.
- Understand the basic use of graphic design applications to create designs.
- Understand and identify tools needed to create a logo.
- Understand and identify the purpose of print communications.
- Understand and identify the purpose of digital communications.

- Understand how to create digital communications.

Module 5

- Explore the primary components of photographic composition.
- Identify the element of photographic enhancement.
- Identify basic camera components used to adjust an image's exposure.
- Identify different parts of the camera and their uses.
- Understand the role of planning in videography.
- Understand how to properly frame a video for specific video shots.
- Identify ways to influence how viewers feel.
- Understand proper lighting techniques.
- Understand the importance of quality audio.
- Understand how to manipulate video and audio to direct a narrative and influence how viewers feel.
- Understand the importance of postproduction and editing.
- Identify tools necessary for editing a video.

Module 6

- Define social media.
- Understand the purpose of social media.
- Identify opportunities to use social media.
- Understand how to create a social media post.
- Understand how to use social media responsibly.
- Identify the importance of responsible use of social media.
- Understand the steps to successful social media marketing.
- Identify the tools used to target individuals using social media.
- Understand the importance of proper text and visuals in social media.
- Identify tools necessary for maximizing post potential.
- Understand how to manipulate video and audio to direct a narrative.

Module 7

- Identify why advertisers must be great writers.
- Understand how to write effectively for advertisements.
- Understand how to write a script for television news.
- Understand how to write screenplays.
- Identify what makes a successful screenplay.
- Identify guidelines for public relations writing.
- Understand and apply principles for writing press releases.
- Understand the formatting of writing for social media.
- Identify structural aspects of social media writing.

Module 8

- Identify common careers in digital design and media production.
- Identify printing basics to produce effective and quality design prints.
- Identify helpful public speaking tips.
- Explore effective guidelines for promoting yourself and your work.
- Analyze steps for effectively building a design and media portfolio.

Accounting II

Module 1

- Describe the difference between financial and managerial accounting.
- Define financial management.
- Explore the business life cycle.
- Define the four forms of business organization.
- Outline the advantages and disadvantages of each form of business organization.
- Explore the articles of incorporation.
- Discuss how to maximize shareholder's wealth.
- Define and discuss social responsibility.
- Describe the last stages in the business life cycle.
- Discuss Generally Accepted Accounting Principles (GAAP).
- Explore International Financial Reporting Standards (IFRS).
- Compare and contrast GAAP and IFRS.
- Define business ethics and corporate governance.
- Explore the corporate code of ethics.
- Detail corporate accounting scandals.
- Explain the purpose of the Sarbanes-Oxley Act.
- Describe the main sections of the act.
- Discuss state accountancy boards.

Module 2

- Explain the process of strategic planning.
- Define and explain mission and value statements.
- Describe SMART objectives.
- Explain top-down, bottom-up, and zero-based budgeting.
- Describe the advantages and disadvantages of three budgeting approaches.
- Discuss the benefits of budgeting.
- Define and explain forecasting.
- Describe qualitative and quantitative forecasting.
- Discuss the Delphi and times series forecasting methods.
- Explain budgeting methods for salaried, hourly, contract, and direct laborers.
- Describe the advantages of hiring contract workers.
- Calculate direct labor costs.
- Explain the difference between selling, general, and administrative expenses.
- Distinguish between fixed and variable expenses.
- Calculate straight-line depreciation.
- Define pro forma income statement.
- Describe seasonality in retail operations.
- Construct a pro forma income statement.

Module 3

- Define cost-benefit analysis.
- Discuss the bank loan application process.
- Explain underwriting decisions.
- Define and explain amortization.
- Explain the advantages of a bank loan.
- Describe the drawbacks of a bank loan.
- Define bonds and discuss bond ratings.
- Calculate the coupon interest rate.
- Explain the advantages and disadvantages of issuing bonds.
- Describe the process of issuing shares.
- Distinguish between common and preferred stock.
- Discuss the advantages and disadvantages of selling stock.
- Define capital gains.
- Compare and contrast dividend policies.
- Discuss factors influencing dividend policies.
- Describe the primary and secondary market.
- Discuss the two main stock exchanges.
- Explain the data elements in the stock table.

Module 4

- Define retained earnings.
- Calculate retained earnings.
- Discuss the advantages and disadvantages of financing with retained earnings.
- Define bullish and bearish markets.
- Discuss and calculate the weighted average cost of capital.
- Explain the advantages and disadvantages of using the weighted average cost of capital on new project proposals.
- Define capital budgeting.
- Explain five categories for capital expenditures.
- Discuss the capital budgeting process.
- Identify three cash flows within capital budgeting.
- Explain and calculate operating cash flows.
- Discuss the advantages and disadvantages of solely utilizing cash flows for decision making.
- Discuss the Rule of 72.
- Define the present value.
- Describe the net present value.
- Explain the future value.
- Calculate the Rule of 72, present, net present, and future values.
- Define and calculate the payback period.
- Define and calculate the internal rate of return.
- Discuss the assumed connections between the internal rate of return and net present value.

Module 5

- Define cost accounting.
- Discuss the difference between cost and financial accounting.
- Discuss cost accounting systems.
- Explain the difference between costs and expenses.
- Compare and contrast fixed and variable costs.
- Describe other costs related to cost accounting and give examples.
- Explain and create a cost production report.
- Define and calculate overhead.
- Describe and calculate the cost of goods manufactured.
- Define cost drivers.
- Discuss the criteria for selecting cost drivers.
- Calculate costs using activity-based costing.
- Define outsourcing.
- Discuss factors to make or buy products.
- Calculate and analyze make-or-buy decisions.
- Define and calculate the contribution margin.
- Describe how to calculate the break-even point.
- Discuss the linear regression graph.

Module 6

- Define and identify the categories on the balance sheet.
- Calculate straight-line depreciation.
- Discuss the benefits of the balance sheet.
- Define the purpose of an income statement.
- Describe income statement categories.
- Discuss consolidated income statements.
- Discuss how corporate taxes fund U.S. government operations.
- Examine Form 1120.
- Prepare a corporate tax return.
- Examine beginning and ending retained earnings.
- Discuss dividend distribution.
- Describe paid-in and additional paid-in capital.
- Discuss the categories associated with the statement of cash flows.
- Identify transactions as operating, investing, or financing.
- Construct a statement of cash flows.
- Describe the importance of consolidated financial statements.
- Explain how cash budgets are prepared.
- Discuss variance analysis.

Module 7

- Define financial ratios.
- Discuss three types of ratio comparison analyses.
- Explain the purpose of annual reports.

- Define liquidity and explain its purpose in ratio analysis.
- Explore the current, quick, and cash ratio.
- Discuss the importance of comparing a single corporation's ratios to competitor and industry averages.
- Identify the six ratios of profitability.
- Describe the formulas for each profitability ratio.
- Explain the rationale for each calculation.
- Identify the benefits of efficiency ratios.
- Calculate efficiency ratios.
- Analyze efficiency ratios.
- Examine operating ratios.
- Describe the use of capital structure ratios.
- Analyze operating and capital structure ratios.
- Define seasonality and discuss its effect on financial statement analysis.
- Explain how window dressing can lead to unethical and illegal behavior.
- Complete a comparison analysis.

Module 8

- Define acquisition.
- Identify the ten steps in acquiring a company.
- Discuss potential issues surrounding acquisitions.
- Describe a hostile takeover.
- Define a merger.
- Identify the four types of mergers.
- Describe the advantages and disadvantages of mergers.
- Define financial distress.
- Identify five signs of financial distress.
- Describe profit margins in identifying financial distress.
- Define bankruptcy terminology.
- Discuss the steps in Chapter 7 bankruptcy.
- Describe the debtor's responsibilities during Chapter 7 bankruptcy.
- Discuss the advantages and disadvantages of Chapter 7 and Chapter 11 bankruptcy.
- Outline the steps of Chapter 11 bankruptcy.
- Explore bankruptcy cases due to fraud and misdealings.
- Describe bankruptcy cases resulting from the COVID-19 pandemic.
- Define Chapter 15 bankruptcy.

Graphic Design and Illustration II

Module 1

- Explore an overview of the subjects and themes discussed in this course.
- Identify the similarities and differences between graphic design and illustration.
- Analyze the history of graphic design and illustration.
- Define and explore common tools for graphic design and illustration.
- Develop an understanding of basic and advanced graphic design applications.
- Explore the basics of the graphic designer portfolio.
- Start and maintain a career graphic design portfolio.

Module 2

- Identify and apply design principles.
- Understand graphic design and illustration as communication tools.
- Explore key rules for effective communication in design.
- Explore graphic design as a promotional tool.
- List ways in which graphic design directly impacts promotion within an organization.
- Explore the techniques involved with giving and receiving effective critiques.
- Interpret and evaluate design decisions.

Module 3

- Explore the design elements of color, line, and shape.
- Understand the basics of color theory.
- Explore common color scheme terms and styles
- Explore the design elements of texture, scale, and form.
- Understand the use of typography in design.
- Explore typography anatomy and theory.
- Understand the use of graphic design and illustration in product and service creation.
- Explore the six rules for creating excellent graphics for products and services.

Module 4

- Explore the need and value of design systems.
- Understand the use of design systems between companies and consumers.
- Explore the ways in which graphic design is a problem-solving tool.
- Explore the various ways mathematics is utilized in graphic design and illustration.
- Explore and practice design as it relates to perspective and anatomy.

Module 5

- Analyze the basics of professional printing as it relates to graphic design.
- Explore and list professional time management skills.
- Understand the need for professional communication in graphic design and illustration.
- Explore professional communication skills.
- Understand the importance of design proposals.
- Explore the main components of design proposals.
- Define mentorship.
- Examine the elements of an effective mentorship.

Module 6

- Assess the impact of the advertising and design industries on society.
- Explore the need for ethics in design.
- Understand copyright laws and fair and acceptable use policies.
- Explore and apply measures for protecting client data.
- Explore basic tips for earning employment in a graphic design or illustration career.
- Understand the need for self-promotion.
- Explore guidelines for effective self-promotion.

Module 7

- Explore and participate in design training for employment.
- Explore common skills for employability.
- Explore technical skills for the modern workplace.
- Explore professional teamwork skills.
- Explore professional conflict management skills.

Module 8

- Revisit basic résumé structure.
- Explore advantageous résumé tips.
- Revisit basic cover letter structure.
- Explore advantageous cover letter tips.
- Demonstrate effective interview skills.
- Identify job opportunities in graphic design, illustration, or related fields.

Health Science Theory

Module 1

- Gain familiarity with the topics we will explore throughout Health Science Theory.
- Explore strategies for effective communication in the health care setting.
- Identify effective conflict-resolution techniques for the health care workplace.
- Identify the role of communication skills in building and maintaining healthy relationships.
- Evaluate ways that healthy relationships influence career performance.
- Identify verbal and nonverbal skills for language barriers and for communicating with individuals with sensory impairments.
- Explore the usefulness of health care communication devices.
- Explore therapeutic communication techniques appropriate for different health care situations.

Module 2

- Solve mathematical calculations common to a health care environment.
- Analyze effective writing and documentation skills in health care.
- Interpret complex technical terms and material related to the health care industry.
- Summarize important biological and chemical processes in the body.
- Explore global health issues related to health science.

Module 3

- Explore governmental regulations and guidelines from various global and U.S. entities.
- Analyze protocols related to hazardous materials and health exposure risks.
- Analyze how to assess and report unsafe conditions in a health care setting.
- Identify the benefits of recycling and waste management in a health care setting.
- Identify proper body mechanics to reduce the risk of injury.

Module 4

- Identify the roles of professional associations and regulatory agencies.
- Examine legal and ethical behavior standards in health care.
- Investigate the legal, ethical, and professional ramifications of unacceptable or discriminatory behavior in health care.
- Analyze document formats such as dental or medical records.
- Identify common recordkeeping best practices in health care.

Module 5

- Identify medical vocabulary specific to the health care setting.
- Explore patient admission, discharge, and transfer protocols.

- Apply critical-thinking skills and evaluate decisions based on case studies in health care.
- List common patient safety standards related to the health care industry.
- Explore the need for empathy in the workplace.

Module 6

- Identify skills related to assisting patients with activities of daily living.
- Determine proper equipment needed for patient ambulation.
- Explore ways to assess range of motion and patient mobility assistance.
- Define techniques used to handle patient stress.
- Explore first-aid skills and techniques.

Module 7

- Identify skills related to assisting patients with activities of daily living.
- Determine proper equipment needed for patient ambulation.
- Explore ways to assess range of motion and patient mobility assistance.
- Define techniques used to handle patient stress.
- Explore first-aid skills and techniques.

Module 8

- Identify essential leadership skills of health science professionals.
- Assess group management and dynamics in the health care industry.
- Explore consensus-building techniques for the health care setting.
- Analyze common health science professions, education requirements, and salaries.
- Identify techniques for building a cover letter and résumé.

Money Matters

Module 1

- Identify benefits of financial planning.
- Describe the steps of the financial planning process.
- Identify skills and standards for financial professionals.
- Describe professional practices for appropriate grooming and appearance.
- Compare and contrast forms of professional communication.
- Identify ethical issues and practices related to the conduct of business.
- Identify foundational legal issues in business.
- Identify financial professionals who have fiduciary responsibility.
- Summarize the legal responsibilities of a fiduciary.

Module 2

- Examine the occupation of a personal financial advisor.
- Survey common corporate and banking financial professional occupations.
- Survey common investment, insurance, and real estate financial occupations.
- Research two careers of interest within the financial industry.
- Identify the factors to consider when formulating a postsecondary education plan.
- Identify and analyze factors influencing the cost of postsecondary education.
- Create a personal plan for postsecondary education.
- Identify the functions and characteristics of money.
- Describe fiat money and alternative forms of financial exchange.

Module 3

- Identify and differentiate different business types.
- Compare and contrast sole proprietorship, partnership, and corporation business structures.
- Analyze the nature and benefits of planning a new business.
- Survey laws, organizations, and government agencies who help protect the rights of consumers.
- Survey consumer banking choices.
- Explain the time value of money.
- Compare and contrast common bank financial products.
- Apply banking skills to interpret and reconcile a bank account.

Module 4

- Compare and contrast the common types of credit, including installment, revolving, collateralized, and non-collateralized credit.
- Identify the differences between debit and credit cards.
- Identify the terms and costs associated with the use of credit card accounts.
- Identify the process and requirements for securing and managing home and automobile loans.

- Survey various types of consumer and commercial loans and identify their characteristics and uses.
- Identify the important methods of monitoring one's credit.
- Explain the process for getting a personal credit report.
- Identify ways to protect one's identity from identity theft.
- Outline steps to take if one's identity is stolen.
- Utilize online calculators to calculate home and automobile loan payment statistics and amortization schedules.

Module 5

- Identify how the factors of production, including land, labor, capital, and brainpower, affect profit, revenue, and expenses.
- Analyze the role of the Federal Reserve System in forming monetary and fiscal policy.
- Describe how gross domestic product is computed and why it is an indicator of the health of an economy.
- Explain how the consumer price index (CPI) allows the government to track inflation and consumer spending.
- Analyze the causes of unemployment and inflation.
- Identify the relationship between unemployment and inflation.
- Examine current international situations that have financial industry implications.
- Analyze the ethical issues involving international labor issues.
- Examine the effect of currency exchange rates on financial decisions.
- Differentiate between the types of unemployment.

Module 6

- Evaluate the role of savings in financial planning.
- Evaluate the relative merits and limits of investing in stocks, mutual funds, and exchange-trade funds.
- Compare and contrast government bonds and treasury notes.
- Evaluate the merits and weaknesses of annuities and options as vehicles for investment.
- Consider how interest rates and market fluctuations can influence the value of bonds, government securities, and options.
- Evaluate investment plans designed to help investors achieve specific goals.
- Evaluate strategies for determining tolerance and managing risk in investment planning.
- Evaluate the relative merits and limitations of investing in real estate, precious metals, currencies, collectibles, and entrepreneurship.
- Analyze investment options and make appropriate recommendations for different investor scenarios.

Module 7

- Analyze the effect of benefits and deductions in determining an employee's net pay.
- Analyze the role of taxes in funding the functions of government.

- Identify the different types of taxes paid by individuals.
- Describe why the federal government requires earners to file income taxes.
- Identify and analyze the steps to completing a Form 1040, including determining filing status and identifying dependents.
- Identify and analyze the steps to completing a Form 1040, including reporting and making adjustments to income.
- Identify and analyze the steps to completing a Form 1040, including determining credits and tax liability.
- Describe the necessary steps to fulfill one's tax payment and filing obligations in specific situations.
- Identify and describe options for filing income taxes.
- Use a tax table, W-2s, and other tax information to prepare a client's Form 1040.

Module 8

- Describe essential characteristics of insurance products including premiums, deductibles, and exclusions.
- Describe characteristics of health insurance, such as preexisting conditions.
- Identify types of health insurance.
- Describe characteristics of property and auto insurance, such as liability coverage.
- Identify types of property and auto insurance.
- Describe characteristics of life and disability insurance, such as benefit periods.
- Identify types of life and disability insurance.
- Describe characteristics of miscellaneous types of insurance, including cancer and long-term care insurance.
- Analyze the effect of personality on financial habits.
- Describe sound practices in forming a budget.
- Develop a personal budget based on goals and real-world data.

Principles of Law, Public Safety, Corrections, and Security

Module 1

- Understand the general purpose of law.
- List topics to be explored in this course.
- Identify the origin of United States law.
- Explore the three sources of law in the United States.
- Identify the lawmaking process at each legal level of government.
- Define a crime.
- Differentiate between different degrees of crime and their punishments.
- Examine the impact of the Bill of Rights on criminal law.
- Identify challenges commonly associated with law enforcement.
- Create a report on a Supreme Court case of your choosing.

Module 2

- Explain the need for public safety.
- Identify the key roles of the public safety professional.
- Identify the roles and responsibilities of various law enforcement professionals.
- Identify education, training, and career opportunities in law enforcement agencies.
- Explore the history of policing in the United States.
- Analyze the impact of constitutional law on various police law enforcement practices.
- Examine the roles and responsibilities of first responders.
- Explore and demonstrate first aid, CPR, and use of AEDs.

Module 3

- Understand the need for a court system.
- Identify the roles and functions of court systems.
- Identify the levels and functions of criminal courts.
- Examine the roles and responsibilities of various courtroom positions.
- Explore typical pretrial and courtroom procedures.
- Identify career opportunities in the court systems.
- Analyze various pretrial and courtroom procedures.
- Identify sentence penalties and forms.

Module 4

- Identify the roles and functions of the correctional system.
- Explore the differences between jails and prisons.
- Analyze the history of prisons in the United States.
- Identify the levels of security in prisons and jails.
- Explore career opportunities available in the correctional system.
- Identify the duties and responsibilities of various jobs in the correctional system.

- Identify the constitutional rights of inmates in prisons and jails.

Module 5

- Identify the roles and functions of various private security systems.
- Differentiate the roles of private security and public law enforcement.
- Examine the relationship between private security and public safety agencies.
- Explore the history of private security in the United States.
- Identify different kinds of private security systems and what they each accomplish.
- Discover career opportunities available in private security.
- Find a true story of a security breach and use analytical skills to form a security proposal.

Module 6

- Explore the roles and responsibilities of firefighters and fire protection services.
- Understand the need for 911 dispatch and computer-aided emergency systems.
- Analyze the relationships between police, fire, and EMT services.
- Identify career opportunities in fire protection services.
- Explore methods for handling hazardous materials.
- Explore basic rules for handling hazardous materials.

Module 7

- Identify jurisdictional problems that may arise across multiple public service agencies.
- Explore ways that jurisdictional problems across agencies are solved.
- Analyze the importance of interagency cooperation and public service departments working together.
- Analyze the importance of good health in roles of public service.
- Explore mental stress and how it is managed in public service.
- Identify and analyze the different dangers associated with different public service career fields.
- Identify specific strategies for maintaining safety in various public service roles.
- Use analytical skills to formulate a proposal and solution to safety.
- Create a mock safety strategy plan.

Module 8

- Explore and apply mathematics to fields related to public service.
- Understand the roles and functions of community and student organizations.
- Explore laws, regulations, and policies that govern professionals.
- Examine real-world ethical dilemmas related to the public service field.
- Use critical thinking skills to try and solve ethical situations.
- Explore and develop various speaking skills and strategies.
- Deliver an effective speech.
- Evaluate the speaking effectiveness of others.
- Recommend a strategy for responding to an unethical or illegal situation.

Global Business

Module 1

- Define global business.
- Identify the benefits of engaging in global business.
- Explain specialization and comparative advantage.
- Distinguish between portfolio investment and direct investment.
- Explore the roles and types of common currencies.
- Identify the roles of the International Monetary Fund.
- Compare and contrast floating versus fixed exchange rates.
- List the foreign exchange market functions.
- Identify the economic factors that influence exchange rates and explain how these factors work.
- Differentiate between alternative strategies of global banking.
- Identify the different levels of economic integration.
- Analyze the various arguments surrounding economic integration.

Module 2

- Define fair trade and describe its domestic and international benefits.
- Identify the primary goals of common trade agreements.
- Identify major reasons for restrictions on imports and exports.
- List ways that imports can be restricted.
- Identify the United States' position in global trade.
- Define global linkages and list various examples.
- Understand the role of foreign aid in global trade and investment.
- Identify advantages for firms wanting to enter global business.
- Identify challenges for firms wanting to enter global business.
- Relate effects of copyrights, trademarks, and intellectual property rights on global business.
- Identify media used in foreign markets.
- Explore common global marketing strategies.

Module 3

- Identify reasons for global business regulation.
- Analyze the Foreign Corrupt Practices Act.
- Explore the role of international law in global business.
- Define global logistics.
- Distinguish between materials management and physical distribution.
- List global transportation modes and factors that influence their selection.
- Identify the usefulness of free trade zones.
- Identify factors that impact global business.
- Identify common foreign market selection procedures.
- Analyze pricing strategies for exports.
- Identify various data-based analytical techniques available for estimating market potential.

- Evaluate reasons behind the need to standardize or to adapt the marketing mix.

Module 4

- List the objectives of human resource management in a global firm.
- Explore how human resources' function changes as firms go global.
- Identify sources of recruitment for staffing positions abroad.
- Identify differences and similarities of training employees in different countries.
- Explore the role of culture in global business.
- Identify various elements of culture.
- Analyze ways cultural diversity can be managed in the global workplace.
- List ways to improve personal global marketability.
- Identify how to conduct a personal SWOT analysis to assess personal global marketability.
- Analyze global employment considerations.
- Identify common global employment opportunities.

Forensic Science

Module 1

- Explain the types of science in forensic science.
- Outline the steps of the scientific method.
- Define forensic science and the purpose of this field.
- Describe the historical timeline of forensic science.
- Identify key figures who made notable strides in forensics.
- Compare and contrast various professionals involved in the criminal justice system.
- Describe the life of a forensic scientist.
- Differentiate between a forensic scientist and a crime scene investigator.
- Define and describe a criminal laboratory.
- Describe the science that takes place in a criminal laboratory.
- Differentiate between presumptive and confirmatory testing.
- Compare and contrast the various forensic science disciplines along with their roles in a criminal laboratory.
- Explain the difference between criminology and criminal justice.
- Describe how the United States legal system functions.
- Outline how a forensic scientist may participate in criminal court proceedings.
- Define ethics and how it relates to forensic science.
- Explain the code of ethics for forensic science.
- Outline common ethical issues noticed in forensics.
- Describe how forensic professionals can display unethical conduct.

Module 2

- Describe the signs of postmortem death.
- Describe the various stages of decomposition.
- Correlate the stages of decomposition to time of death.
- Explain how the body changes after death at a cellular level.
- Correlate the time of death to the signs of postmortem death.
- Describe the signs of postmortem death.
- Describe the various stages of decomposition.
- Correlate the stages of decomposition to time of death.
- Explain how the body changes after death at a cellular level.
- Correlate the time of death to the signs of postmortem death.
- Define forensic anthropology.
- Explain the general characteristics of bones.
- Describe the major bones in the skeletal system.
- Compare and contrast the various bone cell types.
- Compare features of human bone to animal bones.
- Explain the excavation of human remains.
- Describe the methods used to find clues when examining human remains.
- Explain the importance of dental records in identification.
- Describe and define the role of a forensic entomologist in a criminal investigation.
- Outline the different types of insects found at a crime scene.
- Explain how insect evidence is used to estimate the time of death.

- Describe how a forensic entomologist collects and processes insect evidence.

Module 3

- Explain the composition of blood.
- Contrast plasma from serum in blood.
- Define serology and its importance in forensics.
- Differentiate an erythrocyte, leukocyte, and platelet.
- Explain the relationship between antigens and antibodies.
- Contrast false positive and negative tests.
- Compare and contrast presumptive and confirmatory tests of bloodstains.
- Describe the various tests used to identify blood stains along with their procedures.
- Define blood typing and its role in forensics.
- Explain how the ABO classification system works and how this relates to forensic applications.
- Describe genotype and phenotype as it relates to blood typing.
- Practice using a Punnett square to predict genotypes for paternity testing.
- Differentiate between DNA, chromosomes, and genes.
- Describe the structure, function, and characteristics of DNA.
- Explain coding and noncoding regions in a gene.
- Outline the main steps for DNA typing.
- Define DNA profiling and its role in forensics.
- Contrast the differences between gel electrophoresis and STR analysis.
- Explain how to identify a sample when the physical evidence is DNA.
- Identify the common bodily fluids analyzed in forensics.
- Describe the research methods used to collect and analyze these bodily fluids.
- Explain the limitations of research methods for collecting these bodily fluids.

Module 4

- Describe the mechanisms of toxicity.
- Explain the kidney's role in toxicity elimination.
- Understand the principles of toxicology.
- Define dose and the various ways to characterize exposure.
- Explain the ADME method and how this relates to forensics.
- Explain the chemical properties of alcohol.
- Compare and contrast the common forms of alcohol.
- Describe the organic nature of alcohol and its functional group.
- Outline the characteristics of absorption, distribution, metabolism, and elimination of alcohol.
- Define the Widmark curve.
- Outline the levels of impairment.
- Explain how the BAC is estimated using the Widmark curve.
- Explain the factors that affect blood alcohol concentration levels.
- Describe the characteristics of blood alcohol concentration levels.
- Describe a breathalyzer test.
- Describe gas chromatography and how it works.
- Explain how BAC levels are determined with gas chromatography.

- Describe the oxidation-reduction reaction role in breathalyzer testing.
- Outline the precautions for proper blood alcohol sampling, testing, and reporting.
- Describe the different ways to classify drugs by schedules.
- Explain why drugs must be regulated by the court of law.
- Describe the ways to classify drugs by the reactions they produce.
- Describe the different confirmatory tests used.
- Outline the types of screening tests used for drug analysis.
- Describe the relationship between drug use and criminal arrest.
- Explain the factors that influence a person to use drugs.

Module 5

- Describe what criminal evidence is.
- Explain the different ways to classify criminal evidence.
- Outline the various professionals that comprise a criminal investigation team.
- Describe the importance of the seven S's of a criminal investigation.
- Describe the systematic approach to investigate a crime scene.
- Explain how team members work together on a criminal investigative team.
- Outline the seven S's of a crime scene investigation.
- Describe the different types of sketches.
- Explain the steps to creating a final sketch.
- Compare and contrast the ways to sketch the location of objects.
- Explain the guidelines in illustrating and labeling a sketch.
- Describe the different patterns used to search for evidence.
- Explain how search and seizures work.
- Explain the process of securing collected evidence.
- Describe a paper bindle and why they are important.
- Outline how a chain of custody works.
- Describe the purpose of analyzing blood spatter in forensics.
- Explain the directionality of blood.
- Explain how cohesive forces affect the way blood droplets travel.
- Compare and contrast different blood droplets according to the angle of impact.
- List different examples of blood spatter patterns.
- Describe the ways to identify human blood presumptively.
- Explain the importance of the luminol test.
- Describe how to run the luminol test to identify blood stains.
- Determine which serological test to use at a crime scene.

Module 6

- Explain how fingerprints form.
- Correlate the anatomy of skin to fingerprint analysis.
- Describe the history of fingerprints in forensic science.
- Describe the three ways to observe fingerprints on a solid surface.
- Identify the major fingerprint patterns and compare them.
- Describe the different subclasses of the major fingerprint patterns.
- Explain the Henry Classification System and how it has modernized.
- Define and describe the importance of minutiae.
- Describe the various types of ridge characteristics.

- Define AFIS and how it is used in law enforcement.
- Identify the type of minutiae by analyzing a fingerprint.
- Describe how the dusting method is completed.
- Practice dusting for fingerprints on a nonporous surface.
- Compare and contrast the ways fingerprints are developed.
- Explain the process of lifting prints for patent, plastic, and latent prints.
- Describe ACE-V and its importance to forensic science analysis.
- Compare and contrast the types of chemicals used to process latent prints.
- Practice processing latent prints on porous surfaces using fuming methods.
- Explain the importance of collecting DNA from a fingerprint.
- Describe the steps of DNA extraction and collecting DNA from a latent print.
- Define and interpret the parts of an electropherogram graph.

Module 7

- Define trace evidence.
- List the different types of trace evidence.
- Explain how trace evidence is processed through a simulated activity.
- Outline how to differentiate animal hair from human hair.
- Explain the anatomy of hair as it relates to the skin's surface.
- Describe the different ways to analyze hair under a microscope.
- Explain how hair can be used to identify a specific ancestral group.
- Describe how hair is collected, processed, and analyzed as trace evidence.
- Differentiate fibers as either natural or synthetic.
- Describe the ways to process and evaluate fiber evidence.
- Define fibers and why they are classified as trace evidence.
- Explain how to analyze binders.
- Explain how to analyze pigment particles.
- Describe the process of collecting and processing paint trace evidence.
- Describe the composition of paint and its importance to forensic analysis.
- Explain the composition and the different types of glass.
- Describe refractive index and how it is used in forensics.
- Describe how to analyze glass after it is struck by a projectile.
- Outline the steps needed to collect glass as trace evidence.
- Describe firearms.
- Explain the basic characteristics of toolmarks.
- Compare and contrast the different types of guns.
- Explain the components of an ammunition cartridge.
- Describe the difference between gunpowder and primer powder.
- Describe toolmarks and list the different ways to categorize them.
- Explain how toolmarks and bullet casings are analyzed in forensics.
- Outline the steps of how a firearm works.
- Outline the role of the National Integrated Ballistics Information Network in solving gun-related crimes.

Module 8

- Define document analysis and questioned documents.
- Explain the role of a document examiner in forensics.

- Contrast a document examiner with a graphologist.
- Describe the different types of questioned documents.
- Describe the history of handwriting analysis and contributions made.
- Explain how the FBI and forensic scientists use questioned documents to solve crimes.
- Contrast the three forms of handwriting.
- Describe the different handwriting characteristics.
- Outline the steps commonly used to analyze questioned documents.
- Perform an Activity to practice handwriting analysis.
- Explain how forgery is defined legally.
- Describe the different ways to classify questioned documents as forgery.
- Explain how to observe forgery in handwriting.
- Describe ink chromatography and how the process works.
- Describe the purpose of conducting a paper examination.
- Explain how paper is created and why this is important to forensics.
- Describe the different ways to analyze paper.
- Define watermarks and why they are examined.
- Describe the counterfeiting issue on a global scale.
- Explain the ways criminals counterfeit currency.
- Outline the various security features found in authentic U.S. currency.
- Outline some future scientific research advancements in forensics.
- Describe how future advancements impact criminal investigations and society.

Pathophysiology

Module 1

- Define pathophysiology.
- Explain the importance of pathophysiology in society.
- Describe the history of disease and pathophysiology.
- Explain several major scientific contributions to pathophysiology.
- Describe the scientific method in the context of biology.
- Outline the steps of the scientific method.
- Explain the key points to remember about hypotheses, predictions, theories, and laws.
- Describe what happens in a pathology lab.
- Define etiology and pathogenesis as it relates to pathophysiology.
- Contrast signs from symptoms when studying a disease.
- Explain the different ways to classify diseases.
- Describe common ways to diagnose and treat diseases.
- Outline the stages of disease and their definitions.
- Identify the stages of disease in varicella (chicken pox).
- Describe life expectancy as it relates to the history of diseases.
- Explain the factors contributing to disease (environmental and genetic.)
- Describe how the body compensates for damage done due to disease.
- Describe disease prevention.
- Contrast the different disease control methods (asepsis, isolation, quarantine, and vaccination).
- Explain the public health issues associated with disease control methods.

Module 2

- Describe what a cell is and its features.
- Explain how a cell reproduces through mitosis.
- Compare and contrast the functions of organelles inside a cell.
- Describe the chemical interactions and reactions that happen in a cell.
- Explain how the human body is organized, starting at the cellular level.
- Describe the different ways a cell can be injured.
- Explain how a cell adapts to maintain homeostasis.
- Provide examples of how body systems help maintain homeostasis.
- Compare and contrast the three types of cell death: apoptosis, necrosis, and autophagy.
- Explain how cancer spreads throughout the body.
- Differentiate the characteristics between a cancer cell and normal cell.
- Describe the biological processes that lead to cancer development.
- Detect changes in tissues and cells due to genetic mutations and cancer tumors.
- Differentiate between acquired and inherited genetic mutations.
- Analyze how age influences the risk of developing cancer as a child.
- Describe the risk factors associated with childhood cancer development.
- Compare and contrast the pathophysiology of common childhood cancers.
- Explain the difference between a congenital disorder and childhood cancer.
- Outline the various risk factors for developing adult cancers.

- Compare the pathophysiology of the most common adult cancer types.
- Contrast the difference between childhood and adult cancer development.
- Describe how age and gender contributes to cancer development in adults.
- Describe cancer staging and tumor grading.
- Describe the different tools to diagnose and treat cancer.
- Contrast the different cancer treatment options available.
- Explain cancer prognosis and the factors that affect prognosis.
- Explore the impact of emerging technologies and their ways to diagnose and treat cancer.

Module 3

- Explain the function of the immune system.
- Differentiate between innate and adaptive immune responses.
- Describe how the three lines of defense are used to protect the body from pathogens.
- Define microbes and the different types.
- Explain ways to characterize pathogenic microbes.
- Differentiate the types of interactions between microbes and host organisms.
- Describe the different microbial techniques used to identify pathogenic microbes.
- Compare and contrast the types of infectious diseases.
- Explain wound healing and how this helps to repair damage done to the body.
- Describe how the body maintains homeostasis using the inflammatory response.
- Explain the body's natural defense to infectious diseases via the inflammatory response.
- Describe the different ways to treat hospital-acquired infections.
- Compare and contrast community-acquired infections from hospital-acquired infections.
- Explain the different ways to reduce the spread of hospital-acquired and community- acquired infections.
- Describe the history of antibiotics.
- Explain how antibiotics are designed for commercial use.
- Define antibiotic resistance and why certain bacteria develop resistance.
- Explore what happens following exposure to methicillin-resistant Staphylococcus aureus (MRSA).
- Explain the factors that cause a disease to reemerge.
- Compare and contrast emerging and reemerging diseases.
- Examine some different types of reemerging infectious diseases.

Module 4

- Explain how blood flows throughout the body.
- Define blood, including its structure and function.
- Identify the risk factors of blood diseases and disorders.
- Describe how blood connects all body systems together.
- Provide examples of how blood helps the body maintain homeostasis.
- Explain the function of hemoglobin.
- Describe the role of platelets in blood clotting.
- Differentiate the function of different blood cells.

- Explain the origin of blood cell lines from stem cells in bone marrow.
- Contrast acidosis and alkalosis.
- Outline the etiology of metabolic acidosis and alkalosis.
- Outline the etiology of respiratory acidosis and alkalosis.
- Explain the difference in acidic and basic blood pH levels.
- Explain the chemical reaction of the bicarbonate buffer system.
- Describe the importance of buffers in maintaining homeostasis.
- Define anemia and the different types.
- Describe hemophilia, its symptoms, and risk factors.
- Explain the etiology and symptoms of aplastic anemia.
- Explain the etiology and symptoms of sickle cell anemia.
- Describe thrombocytopenia, its symptoms, and risk factors.
- Contrast the different forms of leukemia.
- Describe the pathophysiology of leukemia and lymphoma.
- Compare and contrast Hodgkin's and non-Hodgkin's lymphoma.
- Explain the mechanism of cancer development and metastasis.
- Describe how blood cancers differ from cancers in body tissues.
- Explain the different ways to diagnose blood disorders.
- Describe the advancements in treatment options for blood cancers.
- Describe the current trends in blood disorder and cancer development.
- Compare and contrast the treatment options for blood disorder diagnoses.
- Explain the different ways to diagnose common blood cancers, leukemia, and lymphoma.

Module 5

- Identify key indicators of abnormal circulatory function.
- Describe the purpose and function of the cardiovascular system.
- Outline the various parts of the cardiovascular system and their roles in maintaining homeostasis.
- Define the function of the respiratory system.
- Outline the anatomy of the respiratory system.
- Explain breathing mechanics during an exhale and inhale.
- Describe the function of the cardiopulmonary system.
- Describe how the cardiopulmonary system maintains homeostasis.
- Describe the purpose of testing oxygen levels and analyzing those results.
- Explain how the cardiovascular and pulmonary systems facilitate gas exchange.
- Describe the pathophysiology of certain heart diseases.
- Describe the common acquired heart diseases in children.
- List the common respiratory diseases/conditions in children.
- Describe the common congenital heart diseases in children.
- Differentiate between congenital and acquired heart disease.
- Explain how certain diseases impact both heart and lung function.
- Identify the two main types of cardiopulmonary diseases in adults.
- Characterize the pathophysiology of COPD, congestive heart failure, and coronary heart disease.
- Describe the different treatment options for cardiopulmonary diseases.
- Explain the unique way of detecting congenital heart defects during pregnancy.
- Describe the different ways to diagnose cardiovascular and pulmonary diseases in children and adults.

Module 6

- Define a bodily fluid and the different types.
- Characterize the composition of bodily fluids.
- Contrast the different fluid spaces – intracellular and extracellular fluids.
- Outline why fluid movement is a dynamic process.
- Describe electrolytes and their relationship to homeostasis.
- Contrast the differences between nonelectrolytes and electrolytes.
- Describe the different molecules found in the different fluid spaces.
- Describe the different cell transport systems used to move molecules in and out of a cell.
- Describe how water input and output are maintained.
- Explain acid-base balance and the pH of bodily fluids.
- Describe electrolyte balance and symptoms of an imbalance.
- Explain the importance of fluid balance in maintaining homeostasis.
- Contrast the varying buffer systems used to maintain acid-base homeostasis.
- Describe the anatomy of a kidney.
- Describe the anatomy of a nephron.
- Explain how the kidneys filter blood and form urine.
- Describe the anatomy and function of the renal system.
- Outline the key functions of the kidneys like filtration, red blood cell production, and fluid balance.
- Explain the role of aldosterone and antidiuretic hormones in helping the kidneys regulate fluid balance.
- Define renal disorders.
- Explain acute kidney injury.
- Characterize and describe chronic kidney disease.
- Explain why the kidneys are susceptible to disease.
- Describe the various diagnostic and treatment options for renal disorders.
- Explain the etiology of kidney stones.
- Describe how dialysis treatment works.
- Explain how renal failure affects other body systems.
- Contrast the differences between adult and child renal disorders.
- Explain the difference between dialysis and kidney transplantation as treatment options.

Module 7

- Explain the function of the spinal cord.
- Explain the parts of the brain and their functions.
- Describe the anatomy of the nervous system and its function.
- Explain the various divisions and subdivisions of the nervous system along with their functions.
- Describe the anatomy of a nerve and a neuron.
- Contrast the difference between glial cells and neurons.
- Describe the function of a neurotransmitter at a synapse.
- Explain how neurons communicate through electrical and chemical signals.
- Describe the steps used by neurons to communicate messages via signaling.
- Explain the pathophysiology of Alzheimer’s disease.
- Explain the pathophysiology of Parkinson’s disease.

- Describe diagnostic and treatment therapies for Alzheimer's and Parkinson's.
- Explain the difference between epilepsy and seizures.
- Outline the symptoms of a person with epilepsy.
- Outline the symptoms of a person who has a seizure.
- Describe how neurological disorders in children are different from adults.
- Describe the different treatment options for epilepsy and seizures.
- Explain the pathophysiology of strokes.
- Compare and contrast adult from pediatric strokes.
- Describe the different ways to diagnose and treat strokes.
- Contrast the different types of strokes – ischemic and hemorrhagic.
- Explain BEFAST and why it is important to the process of recovering from a stroke.
- Describe the role of hormones in the body.
- Outline the functions of different hormones secreted.
- Describe the anatomy and physiology of the endocrine system.
- Describe the anatomy and physiology of the reproductive system.
- Define endocrine disruptors and their effects on disease processes.
- Explain the causes of different reproductive and endocrine disorders.
- Explain how the endocrine system works together with the reproductive system.
- Describe some general ways to diagnose and treat endocrine and reproductive disorders.

Module 8

- Define epidemiology and its role in public health.
- Describe the different models used in epidemiology.
- Identify the different epidemiological studies used.
- Explain the connection of conducting a study to developing models.
- Explain the interrelationship between pathophysiology and epidemiology.
- Explain the benefit of health professionals using epidemiology to lower disease risk in people.
- Explain how a disease is defined in the context of a population.
- Describe the global issues associated with disease prevention and control.
- Contrast the three different ways to define a disease: endemic, epidemic, and pandemic.
- Describe the impacts of disease prevention and control on reducing the burden of disease in a population.
- Define stress and its causes.
- Explain the pathophysiology of stress.
- Describe the mechanism of stress and how the body responds.
- Explain the relationship between stress and aging as it relates to cell reproduction.
- Explain why reemerging diseases are a global threat.
- Provide examples of some reemerging global diseases.
- Explain possible solutions to reduce this threat on a global scale.
- Provide examples of reemerging disease threats in the United States.
- Describe the various issues that cause a breakdown in public health measures.
- Describe the differences between SARS-CoV-2 and COVID-19.
- Outline specific signs, symptoms, and risk factors of COVID-19.
- Describe the different prevention tools and medical treatments available.

- Apply pathophysiology knowledge to understand the nature of coronavirus.
- Identify the different types of prevention and how they relate to pathophysiology.
- Describe how models are used to create and evaluate intervention strategies.
- Describe the health belief model.
- Explain how perception and reception must be considered when implementing an intervention strategy.

Personal Financial Literacy and Economics

Unit 1

- Understand how the government spends money.
- Understand how consumers, companies, and countries make economic decisions.
- Describe the rights and responsibilities that consumers have.
- Discern good credit from bad credit.
- Understand the components and consequences of borrowing money.
- Understand the four major economic systems used today.
- Discuss the ideas of those who created the command and market economies.
- Understand the faults of the Articles of Confederation in relation to economic issues.
- Understand how the U.S. Constitution addresses economic issues.
- Explain the economic contributions of Alexander Hamilton.
- Understand the business cycle and its impact on our country's history.
- Explain the major economic downturns in U.S. history.

Unit 2

- Understand the three questions all economies must answer.
- Explain the nature of competition and the different types of monopolies.
- Understand the U.S. government's measures against monopolies.
- Explain what money is and what three main functions it serves.
- Explain the different types of money and other means of payment used by individuals, companies, and governments.
- Discuss the history of banking and the different types of banks seen in the United States today.
- Explain the history behind the creation of the Federal Reserve System.
- Explain the intricate nature of the Fed and the setting of the United States' monetary policy.
- Understand the nature of and decisions behind the United States' fiscal policy.

Unit 3

- Identify the importance of demand in an economy.
- Illustrate demand in both a schedule and a curve, and know why a demand curve functions the way it does.
- Explain the various factors beyond price that impact demand for a particular product.
- Examine the importance of supply in an economy.
- Illustrate supply in both a schedule and a curve, and know why a supply curve functions the way it does.
- Explain the various factors beyond price that impact supply of a particular product.
- Explain the impact of income and substitution on consumer choice.
- Calculate utility and marginal utility for a particular product.
- Use utility calculation to predict business behavior.

- Explain the different types of costs and profits that are considered in the success of a business.
- Calculate the factors that are used to determine the success of short-term moves, such as returns and costs.
- Explain and calculate the nature of long-term decisions made by companies.

Unit 4

- Survey the types, benefits, and detriments of the various types of accounts offered by banks.
- Apply banking skills in writing checks and reconciling bank accounts.
- Distinguish between the different types of loans, as well as the responsibilities and risks in borrowing money.
- Identify ways to properly manage debt and build a good credit history.
- Assess the long-term costs and benefits of postsecondary education.
- Appraise the different ways to fund postsecondary education, including government aid through the Free Application for Federal Student Aid (FAFSA).
- Identify the benefits, costs, and responsibilities associated with the following: renting a place to live, buying a home, and purchasing insurance.
- Understand the costs and benefits associated with charity donations.
- Identify stock and bond markets and describe their role in the economy.
- Identify and assess the relative merits of various types of investments used to build wealth.
- Survey the methods of investing, including financial planners, brokers, and self-directed investing.
- Recognize how corporations raise money through stocks and bonds.
- Differentiate between the different types of business models and the advantages and disadvantages of each.
- Describe the economic rights and responsibilities of a business, particularly a small business.

Unit 5

- Describe the importance of defining financial risk and anticipating contingencies.
- Outline risk management strategies, including avoiding, reducing, retaining, and transferring risk.
- Identify ways to protect personal information.
- Outline the steps to take if one's credit or identity is compromised.
- Identify the characteristics of common scams.
- Describe how consumer protection agencies can benefit consumers.
- Explain when and how to use common legal devices such as a power of attorney or a living will.
- Explain the characteristics, costs, and benefits of health, disability, life, property, automobile, and other types of insurance.

Unit 6

- Describe how education and training affect lifetime earnings.

- Identify factors and key statistics that can help a student in choosing a school that provides a quality education.
- Identify direct and indirect costs associated with higher education.
- Compare and contrast public, private, and community colleges, and vocational schools.
- Explain the benefits provided by the FAFSA and identify when and how to apply.
- Survey sources for funding higher education through loans, grants, and scholarships.
- Apply measures such as academic reputation, starting salary, and graduation rate to compare and contrast your schools of interest.

Law Enforcement I

Module 1

- Identify what will be explored throughout Law Enforcement I.
- Understand how citizens are protected by constitutional laws of local, state, and federal courts.
- List the roles of the Supreme Court.
- Analyze the impact of various Supreme Court decisions.
- Analyze the similarities, differences, and interactions between local, state, and federal court systems.
- Identify the progression of a case as it moves through local, state, and federal jurisdictions.
- Compare the characteristics of civil and criminal court systems.
- Identify the components of the Miranda warning.
- Explore the additional requirements above the Miranda warning for juvenile suspects, offenders, and witnesses.

Module 2

- Analyze circumstances that are high risks for officers.
- Identify the types of force employed by police officers.
- Explore the legal authority and justification for use of force.
- List force options and alternatives.
- Examine elements that an officer must recognize and control in every encounter.
- Identify the elements of a crash report.
- Explore laws associated with accident investigation.
- Identify procedures for responding to an accident scene.
- Understand how to maintain control of an accident scene.

Module 3

- Explore the role of the U.S. Constitution in relation to the development and implementation of law enforcement.
- Analyze legal and ethical behavior standards protecting citizens' constitutional rights.
- Explore strategies of law enforcement to enhance public trust.
- Identify the mission of law enforcement in protecting a democratic society.
- Define common crime categories.
- List elements of criminal acts.
- Differentiate between *mala in se* and *mala prohibita*.
- Analyze types of criminal defenses.

Module 4

- Analyze the rights of victims of crimes and witnesses to crime laws.
- Analyze the psychological, social, and economic impact of crimes on victims.

- Identify the elements of crisis reaction.
- Identify statutory responsibilities relating to victim's rights.
- Explore the steps in processing the status offenses of juveniles.
- Explore the procedure for holding conferences with juveniles and parents or guardians.

Module 5

- Understand the dynamics and legal issues of family violence.
- Describe the phases of the cycle of abuse.
- Explore abuse types and barriers victims face when attempting to leave an abusive relationship.
- Identify common characteristics of family violence offenders.
- List various legal issues surrounding domestic violence.
- Explore preventative measures and interventions for violence.
- Identify the Magistrates Order for Emergency Protection.
- Understand the legal requirements for investigating reports of abuse.
- Identify types of medical examinations for abuse.
- Explore medical documentation requirements for abuse.
- Identify protocols for how to handle family violence calls.
- Explore the steps for conducting preliminary investigations.

Module 6

- Identify current commonly abused drugs in society and their risks and effects.
- Explore the procedures for handling drugs, dangerous drugs, and controlled substances.
- Identify components of community-oriented policing.
- Evaluate the skills needed to be a successful community-oriented police officer.
- Identify components of police call sheets, incident reports, and supplemental reports.
- Explore why police reports serve as legal documents.
- Explore important components of nonverbal communication in law enforcement.
- Interpret voice quality and delivery such as a combination of pitch, tone, and wording.
- Identify active listening skills in law enforcement.

Module 7

- Explore the legal basis for stopping a vehicle.
- Identify techniques used to assess risk in vehicle stops.
- Analyze common traffic laws and their applications.
- Explore ways to identify common traffic violations.
- Identify laws related to driving while intoxicated and related offenses.
- Define reasonable suspicion for the intoxicated driver stop and temporary detention.
- Explore the seven-step violator contact method.
- Analyze felony traffic stop procedures with both one and two patrol units.

- Identify the regulations relating to arrest, charging procedures, notices, and promises to appear.

Module 8

- Identify how to photograph, sketch, and protect the crime scene area for further investigation.
- Explore how to search, collect evidence from, and document the crime scene area.
- Analyze how to lift and preserve developed latent prints from a simulated crime scene.
- Explore techniques officers use to safely approach, enter, and search a residence or building.
- Explore techniques for clearing buildings or residences when suspects are found inside.

Intro to Welding

Module 1

- Identify welding as an important process in manufacturing.
- Consider types of problems presented by welding scenarios and the math skills required.
- Calculate problems using math operations.
- Convert fractions to decimals.
- Convert decimals to fractions.
- Perform conversions between standard and metric units.
- Apply accurate readings of measuring devices.
- Accurately use appropriate tools to make measurements.

Module 2

- Explore common welding shop hazards.
- Analyze appropriate personal protective equipment for welding.
- Examine welding safety procedures.
- Identify health and safety skills as specified by appropriate government regulations.
- Identify and properly dispose of environmentally hazardous materials used in welding.

Module 3

- Identify common types of welds.
- Demonstrate knowledge of welding blueprints.
- Identify how to prepare joints for welding.
- Explore the tools needed for welding joint preparation.
- Identify various ways to create a weld bead.
- Identify various ways to create a fillet weld.

Module 4

- Identify employers' expectations to foster positive customer satisfaction.
- Identify important work ethics in the welding workplace.
- Identify ways to conduct oneself in a professional way in a welding environment.
- Identify ethical courses of action required in the field of welding.
- Identify common welding work processes.
- Explore ways to continuously improve welding processes.

Module 5

- Define shielded metal arc welding.
- Explore safe protocols for shielded metal arc welding.

- Identify and demonstrate proper set-up procedures for SMAW.
- Determine appropriate electrodes for base metal in shielded metal arc welding.
- List proper set-up procedures for shielded metal arc welding.
- Identify the four primary welding positions.

Module 6

- Explore safe operating practices for oxy-fuel cutting.
- Identify components of oxy-fuel gas cutting.
- Explore proper setup procedures for the oxy-fuel process.
- Identify the factors affecting the oxy-fuel cutting of base metals.
- Explore proper cutting techniques such as piercing, straight line, and bevel.

Module 7

- Identify gas metal arc welding principles.
- Demonstrate proper setup procedures for gas metal arc welding.
- Use appropriate equipment setup for base metal in gas metal arc welding.
- Identify various metal transfer modes for GMAW.
- Explore TIG welding components, setup, and techniques.

Module 8

- Identify various welding codes.
- Determine academic knowledge and skills required for postsecondary education.
- Explore careers in welding.
- Explore personal traits for success including time management and a willingness to learn.
- Explore professional interviewing skills.