Grade 8 Math

During the second quarter we will finish Unit 1 "Expressions and Equations." We will begin Unit 2 "Linear Functions." Unit 2 is made up of 4 chapters and we will complete 2 of the four chapters, Chapter 4 and Chapter 5. For each chapter students will be required to complete daily homework (Monday-Thursday), worksheets, quizzes, chapter review, and content tests. Students will also be taking notes and completing class work on a daily basis.

Chapter 3 "Solving Linear Equations"
    Students will be able to:
        Translate verbal sentences into equations and equations into verbal sentences
        Solve equations by adding and subtracting
        Solve equations by multiplying and dividing
        Solve equations involving more than one operation
        Solve equations with variables on each side
        Solve proportions
        Find percents of increase and decrease
        Solve equations for given values
        Solve mixture problems
    Students will be completing a project titled "A Day in the Life of…" to demonstrate their understanding of ratios, proportions, measurement, angles, and other review skills.

Chapter 4 "Graphing Relations and Functions"
    Students will be able to:
        Locate and graph points on a coordinate plane
        Transform figures by using reflections, translations, dilations, and rotations
        Represent relations as sets of ordered pairs, tables, mappings, and graphs
        Find the inverse of relations
        Use an equation to determine the range for a given domain
        Graph the solution set for a given domain
        Determine whether an equation is linear
        Graph linear equations
        Determine whether the graph is a function
        Find the function values
        Recognize arithmetic sequences
        Extend and write formulas for sequences
        Look for patterns
        Write an equation given some of the solutions
Chapter 5 "Analyzing Linear Equations"

Students will be able to:
- Find the slope of a line
- Use rate of change to solve problems
- Write and graph direct variation equations
- Solve problems involving direct variation
- Write and graph linear equations in slope-intercept form
- Model real-world data with an equation in slope-intercept form
- Write an equation of a line given the slope and one point on a line
- Write an equation of a line given two points on the line
- Write the equation of a line in point-slope form
- Write linear equations in different forms
- Write an equation of the line that passes through a given point, parallel to a given line
- Write an equation of the line that passes through a given point, perpendicular to a given line
- Interpret points on a scatter plot
- Write equations for lines of fit

Grade 7 Math

During the second quarter we will finish Unit 1 "Algebra and Integers" and begin Unit 2 "Algebra and Rational Numbers." This unit is made up of three chapters, chapters four through six. For each chapter students will be required to complete daily homework (Monday-Thursday), worksheets, quizzes, chapter review, and content tests. Students will also be taking notes and completing class work on a daily basis.

Chapter 3 "Equations"
Students will be able to:
- Use Distributive Property to write equivalent numerical and algebraic expressions
- Use Distributive Property to simplify algebraic expressions
- Solve equations using Subtraction and Addition properties
- Solving equations using Multiplication and Division properties
- Solve two-step equations
- Write and solve verbal sentences as two-step equations
- Solve problems by using perimeter and area formulas

Chapter 4 "Factors and Fractions"
Students will be able to:
- Determine whether one number is a factor of another
- Determine whether an expression is a monomial
- Write expressions using exponents
- Evaluate expressions containing exponents
- Write the prime factorization of composite numbers
- Factor monomials
- Find the greatest common factor of two or more numbers or monomials

Use the Distributive Property to factor algebraic expressions
Simplify fractions using the GCF
Simplify algebraic fractions
Multiply monomials
Divide monomials
Write expressions using negative exponents
Evaluate numerical expressions containing negative exponents
Express numbers in standard form and in scientific form
Compare and order numbers written in scientific notation

Chapter 5 "Rational Numbers"
       Students will be able to:
              Write fractions as terminating or repeating decimals
              Compare fractions and decimals
              Write rational numbers as fractions
              Identify and classify rational numbers
              Multiply fractions
              Use dimensional analysis to solve problems
              Divide fractions using multiplicative inverse
              Use dimensional analysis to solve problems
              Add like fractions
              Subtract like fractions
              Find the least common multiple of two or more numbers
              Find the least common denominator of two or more numbers
              Add unlike fractions
              Subtract unlike fractions
              Use the mean, median, and mode as measures of central tendency
              Analyze data using mean, median, and mode
              Solve equations containing rational numbers
              Find the terms of arithmetic sequences
              Find the terms of geometric sequences

Grade 6 Math

During the second quarter we will finish Unit 2 "Decimals." This unit is made up of two chapters, chapter three and four. We will begin Unit 3 "Fractions." This unit is made up of 3 chapters, chapters five through seven. For each chapter students will be required to complete daily homework (Monday-Thursday), worksheets, quizzes, chapter review, and content tests. Students will also be taking notes and completing class work on a daily basis.

Chapter 3 "Adding and Subtracting Decimals"
       Students will be able to:
              Represent decimals in word, standard, and expanded form
              Compare and order decimals
              Round decimals

Estimate sums and differences of decimals
Add and subtract decimals

Chapter 4 "Multiplying and Dividing Decimals
       Students will be able to:
              Estimate and find the product of decimals and whole numbers
              Multiply decimals by decimals
              Divide decimals by whole numbers
              Divide decimals by decimals
              Find the perimeters of rectangles and squares
              Find the circumference of circles

Chapter 5 "Fractions and Decimals
       Students will be able to:
              Find the GCF of two or more numbers
              Express fractions in simplest form
              Write mixed numbers as improper fractions and vice versa
              Find the LCM of two or more numbers
              Compare and order fractions
              Write decimals as fractions and vice versa
              Write fractions as terminating or repeating decimals

Grade 8 Wordskills

       Grade 8 will be using <u>Wordskills</u> by McDougal Littell Level 9 in the first quarter. Students will complete 1 unit per week and be tested on spelling and vocabulary (definitions and uses of words). Students will be concentrating on the basic principles this year:
              Words in context
              Strategies for determining word meanings
              Systematic reinforcement
              Relationships between words
              Usable vocabulary
              Applications
Students will complete units 11-16 in the second quarter, completing one unit per week. Points per unit will vary because we may not complete all sections of each unit. Each Friday students will be tested on spelling and meanings of words.

Grade 8 History

The book <u>American History – Beginnings to 1914</u> by McDougal Littell will be used for History. During the second quarter students will complete Chapter 3 and Unit 2 "The English Colonies," and begin Unit 3 "Creating a New Nation." For each chapter students will be completing daily homework (Monday-Thursday), worksheets, comprehension questions, graphic organizers, quizzes, tests, and participating in class discussions. We will work on a brochure project about the Colonies.

Chapter 3 "The English Establish 13 Colonies" 1585-1732
   Students will be able to
            Identify the first English colonies
            Describe the founding and growth of Jamestown
            Explain why the Pilgrims came to America and describe their first years there
            Describe the society established by the Puritans in Massachusetts Bay
            Explain how Massachusetts Bay "seeded" New England
            Describe the fight for tolerance of the Quakers and other groups
            Explain why Lord Baltimore founded the colony of Maryland
            Explain how the economy and social structure of the Carolinas were intertwined
            Describe how Georgia evolved into a plantation society
            Analyze the common features shared by the Southern colonies
            Summarize the early history of the Middle Colonies
            Explain how the English seized the Middle Colonies and established control from
            New England to the Southern Colonies

Chapter 4 "The Colonies Develop" 1651-1753
   Students will be able to
            List New England's major resources
            Explain the effects of Atlantic trade on New England
            Analyze the causes of King Phillip's War
            Summarize the changes that took place in Puritan society in the late 1600s
            Describe the plantation economy in the South
            Analyze how the search for cheap labor let to slavery
            Explain ways that African Americans resisted enslavement
            Explain why the Middle Colonies were prosperous
            Describe the role of African Americans in building cities
            Summarize ways that ethnic diversity encouraged tolerance

Chapter 5 "Beginnings of an American Identity" 1689-1763
   Students will be able to
            Contrast the colonies with older societies
            Describe daily life in the colonies
            Identify changes in American society caused by the Great Awakening
            Summarize Enlightenment ideas and how they affected the colonies
            Describe the growth of English rights between 1215 and the late 1600s
            Identify issues which created conflicts between England and the colonies over
            colonists' rights

Identify conflicts created by European claims to Native American lands
Describe events which led to the beginning and spread of the French and Indian War
Describe the changing attitudes of colonial Americans and Native Americans following the French and Indian War

Grade 8 Literature

The book <u>Elements of Literature</u> will be used for eighth grade Literature. During the second quarter we will cover Collection 2 "Do The Right Thing." While completing this unit the students will be complete worksheets, quizzes, comprehension questions, tests, and participate in class discussions. Unit 1 stresses understanding and summarizing plot and setting in short stories.

"from Harriet Tubman Conductor on the Underground Railroad"
    Biography
"Barbara Frietchie"
    Narrative Poem
"Too Soon a Woman"
    Short Story
"Union Pacific Railroad Poster"
    Historic Document
"Mrs. Flowers from I Know Why the Caged Bird Sings"
    Autobiography
"Drumbeats and Bullets"
    History
"The Drummer Boy of Shiloh"
    Short Story
"Green Gulch"
    Autobiography
"My Parents"
    Poem
"from What to the Slave is the Fourth of July?"
    Speech Excerpt

Grade 8 Religion

The book <u>Catholic Connections for Middle Schoolers, Second Edition</u> will be used for eighth grade. A formal religion class will be taught three days a week. On Tuesdays we will attend mass. During the second quarter we will cover Chapters 39 through 41, along with beginning preparation for the Sacrament of Confirmation and preparing Masses. We will also learn about the Cardinal Virtues of Faith, Hope, and Justice.

Learning Objectives:

When judging the morality of an action, we must consider the object, intention, and circumstances.

Freedom is the ability to make good and right choices based on a well-formed conscience. Sins are offenses against God.

Our relationship with God and our neighbor should be the focus of our lives.

The Church offers us guidelines that help us grow in our love of God and neighbor.

God always comes first in our lives.

The name of the Lord, our God, is sacred, and we should treat it with respect.

Sunday is a day to celebrate our love of God and recreate ourselves by refreshing our minds, bodies, and spirits, all for God's glory.

The students will review the first three commandments and the earlier three learning outcomes for the chapter.

The Fourth Commandment, "Honor your father and your mother," requires us to honor, respect, and obey our parents and those in legitimate authority over us.

Being a family is hard work, and respect between children and parents is a two-way street.

We take our understanding of honoring our families into the world by living out the Fourth Commandment in a larger society.