Grade 8 Math

The book <u>Algebra 1</u> will be used for eighth grade Math. During the first quarter we will complete Unit 1 "Expressions and Equations." This unit is made up of three chapters. 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 1 "The Language of Algebra"
          Students will be able to
               Write algebraic expressions
               Evaluate expressions
               Evaluate expressions and solving open ended sentences
               Use the properties of identity and equality
               Use the Distributive Property to evaluate and simplify expressions
               Use the Commutative and Associative Properties to simplify expressions
               Identify the hypothesis and conclusion in a conditional statement
               Interpret and draw graphs of functions
               Analyze data given in tables and graphs to determine if graphs are misleading

Chapter 2 "Real Numbers"
          Students will be able to
               Graph rational numbers on a number line and find the absolute value
               Add and Subtract integers and rational numbers
               Multiply integers and rational numbers
               Divide integers and rational numbers
               Interpret and create line plots and stem-and-leaf plots; analyze data using mean, median, and mode
               Find the probability and odds of a simple event
               Find square roots; classify and order real numbers

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

Grade 7 Math

The book of <u>Pre-Algebra</u> will be used for seventh grade Math. During the first quarter we will complete Unit 1 "Algebra and Integers." This unit is made up of three chapters. 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 1 "The Tools of Algebra"
   Students will be able to
      Use a four step plan to solve problems
      Use order of operations to solve problems; translate verbal phrases into numerical expressions
      Evaluate expressions containing variables
      Use properties of addition and subtraction to simplify algebraic expressions
      Identify and solve open sentences
      Use ordered pairs to locate points; use tables and graphs to represent relations
      Construct and interpret scatter plots

Chapter 2 "Integers"
   Students will be able to
      Compare and order integers; find absolute value
      Add two or more integers
      Subtract integers; evaluate expressions containing variables
      Multiply integers; simplify algebraic expressions
      Divide integers; find average of a set of data
      Graph points on a coordinate plane

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
      Solve 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

Grade 6 Math

The book of <u>Mathematics Applications and Concepts</u> will be used for sixth grade. During the first quarter we will complete Unit 1 "Whole Numbers, Algebra and Statistics." This unit is made up of two chapters. 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 1 "Number Patterns and Algebra"
> Students will be able to
>> Solve problems using the four-step plan
>> Use divisibility rules
>> Find the prime factorization for composite numbers
>> Use powers and exponents in expressions
>> Evaluate expressions using the order of operations
>> Evaluate algebraic expressions
>> Solve equations using the guess and check method
>> Find the areas of rectangles

Chapter 2 "Statistics and Graphs"
> Students will be able to
>> Make and interpret frequency tables
>> Make and interpret line and bar graphs
>> Interpret circles graphs
>> Make predictions from line graphs
>> Construct and interpret stem-and-leaf plots
>> Find the mean of a set of data
>> Find the median, mode, and range of a set of data
>> Recognize when statistics and graphs are misleading

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 1-9 in the first 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 first quarter students will complete Unit 1 "Three Worlds Meet," and part of Unit 2 "The English Colonies." For each chapter students will be completing daily homework (Monday-Thursday), worksheets, comprehension questions, graphic organizers, quizzes, tests, and participating in class discussions.

Chapter 1 "The World Before 1500"
> Students will be able to
>> Explain how the first people came to live in the Americas
>> Describe the societies that formed as complex civilizations began to rise in the Americas
>> List some of the ways that pre-contact societies adapted to their unique environment
>> Describe African kingdoms before 1200 and how they were influenced by Africa's 3 geographic zones
>> Identify the ways that later African kingdoms acquired resources
>> Describe the social, political, and economic changes that occurred as modern Europe emerged
>> Explain how exploration and trade fueled European expansion during the 1400s

Chapter 2 "European Exploration of the Americas" 1492-1650
> Students will be able to
>> Explain reasons for European exploration of the Americas
>> Summarize Spain's conquests of the Aztec and Inca empires
>> Describe the competition among Eruopean nations to explore the Americas
>> Explain why, how, and where the French and Dutch established colonies in North America
>> Explain how Spain organized its empire and colonies
>> Describe the role of the Church in the Spanish colonies
>> Identify the effects of the Columbian Exchange
>> Define slavery and summarize how it developed in the Americas
>> Describe the lives of enslaved people and how slavery led to racism

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

Grade 8 Literature

The book Elements of Literature will be used for eighth grade Reading. During the first quarter we will cover Collection 1 "Telling Stories." 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.

"Broken Chain"
    Short Story
"Flowers for Algernon"
    Short Story
"The Landlady"
    Short Story
"The Monkey's Paw"
    Short Story
"The Third Wish"
    Short Story
"The Open Window"
    Short Story

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 first quarter we will cover Chapters 37 through 39 and Chapter A: The Gospel of Matthew, along with beginning preparation for the Sacrament of Confirmation and preparing Masses.

Learning Objectives:
> In Matthew's Gospel, Jesus is the Messiah who springs from within God's people yet is destined to be the Savior of the whole world.
> Jesus' teaching is opposed by the Jewish leaders.
> Jesus is shown to be both human and divine, as witnessed by his Transfiguration and his miracles.
> Jesus declares that Peter is the foundation of the Church, and sends us, his Church, into the world with a message of love and salvation.
> God revealed the Old Law, the Ten Commandments, to give the Chosen People guidelines on how to live in right relationship with God and one another.
> Jesus revealed the New Law, the Law of Love, with the help of the Holy Spirit, as a completion and fulfillment of the Old Law.
> The Bible offers advice and guidelines for making good moral choices.
> Free will is the basis for our moral responsibility, and we look to Sacred Scripture to guide our choices.
> The Ten Commandments and the Golden Rule given to us by Jesus summarize God's Law for us.
> The Natural Law is an inborn understanding of what is good. God uses the teachings of the Old Law to prepare us for the Good News of Jesus in the Gospels.
> Virtues are habits we develop to help us consistently do the right thing.
> The cardinal virtues and theological virtues help us walk the paths of faith and reason and come closer to God.
> 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.