

Mrs. Crotty
Quarterly Plans
Fourth Quarter
2015-2016

Grade 8 Math

During the fourth quarter we will finish Chapter 7 and begin Unit 3 “Polynomials and Nonlinear Functions.” Unit 3 is made up of three chapters, chapters 8 through 10. 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 8 “Polynomials”

Students will be able to:

- Multiply monomials
- Simplify expressions involving power of monomials
- Simplify expressions involving the quotient of monomials
- Simplify expressions containing negative exponents
- Express numbers in scientific notation and standard notation
- Find products and quotients of numbers expressed in scientific notation
- Find the degree of a polynomial
- Arrange the terms of a polynomial in ascending or descending order
- Add and subtract polynomials
- Find the product of a monomial and a polynomial
- Solve equations involving polynomials
- Multiply two binomials using the FOIL method
- Find squares of sums and differences
- Find the product of sums and differences

Chapter 9 “Factoring”

Students will be able to:

- Find the prime factorization of integers and monomials
- Find the greatest common factors for sets of integers and monomials
- Factor polynomials
- Use the Zero Product Property to solve equations

Chapter 10 “Quadratic and Exponentials Functions:

Students will be able to:

- Graph quadratic equations
- Solve quadratic equations
- Graph exponential functions
- Solve problems involving exponential growth and decay
- Extend geometric sequences

Grade 7 Math

During the fourth quarter we will finish Unit 2 “Algebra and Rational Numbers” and begin Unit 3 “Linear Equations, Inequalities, and Functions.” This unit is made up of two chapters, Chapter 7 and Chapter 8. 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 6 “Ratio, Proportion, and Percent”

Students will be able to:

- Write ratios as fractions in simplest form
- Determine unit rates
- Solve proportions
- Use proportions to solve real-world problems
- Use scale drawings
- Construct scale drawings
- Express percents as fractions and vice versa
- Express percents as decimals and vice versa
- Use the percent proportion to solve problems
- Compute mentally with percents
- Estimate with percents
- Solve percent problems using percent equations
- Solve real-life problems involving discount and interest
- Find the percent of increase and decrease
- Find the probability of simple events
- Use a sample to predict the actions of a larger group

Chapter 7 “Equations and Inequalities”

Students will be able to:

- Solve equations with variables on each side
- Solve equations that involve grouping symbols
- Identify equations that have no solution or an infinite number of solutions
- Write and graph inequalities
- Solve inequalities by using the Addition and Subtraction Properties of Inequalities
- Solve inequalities by multiplying by positive and negative numbers
- Solve inequalities that involve more than one operation

Chapter 8 “Functions and Graphing”

Students will be able to:

- Determine whether relations are functions
- Use functions to describe relationships between two quantities
- Solve linear equations with two variables
- Graph linear equations using ordered pairs
- Find the x and y intercepts of graphs

- Graph linear equations using the intercepts
- Find the slope of a line
- Find rates of change
- Solve problems using direct variation
- Determine slopes and y intercepts of lines
- Graph linear equations using the slope and y intercept
- Write equation using the slope and y intercept
- Draw best-fit lines for sets of data
- Use best-fit lines to make predictions about data
- Solve systems of linear equations by graphing and substitution

Grade 6 Math

During the fourth quarter we will finish Unit 3 “Fractions” and begin Unit 4 “Algebra.” This unit is made up of two chapters, Chapter 8 and Chapter 9. We will also begin Unit 3, made up of chapter 12-14. 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 8 “Integers”

Students will be able to:

- Identify, compare, graph, and order integers
- Add and subtract integers
- Multiply and divide integers
- Graph ordered pairs of numbers on a coordinate plane

Chapter 9 “Solving Equations”

Students will be able to:

- Use the Commutative, Associative, Identity, and Distributive Properties
- Solve addition equations
- Solve subtraction equations
- Solve multiplication equations
- Solve two-step equations
- Complete function tables and find function rules
- Graph functions from function tables

Chapter 12 “Measurement”

Students will be able to:

- Change units of length, weight, and capacity in the customary system
- Use metric units of length, mass, and capacity
- Change units within the metric system
- Add and subtract measures of time

Chapter 13 “Geometry: Angles and Polygons:

Students will be able to:

Classify, measure, and draw angles
Bisect line segments and angles
Name two-dimensional figures
Determine congruence and similarity

Grade 8 Wordskills

Grade 8 will be using Wordskills by McDougal Littell Level 10 in the third 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 Fourth 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 American History – Beginnings to 1914 by McDougal Littell will be used for History. During the fourth quarter students will complete Unit 3 “Creating a New Nation,” and begin Unit 4 “The Early Republic.” For each chapter students will be completing daily homework (Monday-Thursday), worksheets, comprehension questions, graphic organizers, quizzes, tests, and participating in class discussions.

Chapter 8 “Confederation to Constitution”

Students will be able to:

Explain why the states joined together to form a new government
Describe the strengths and weaknesses of the Articles of Confederation
Identify the reasons why there was a call for the Constitutional Convention
Explain how the Convention resolved challenges over slavery
Explain why the Federalists supported ratification of the Constitution and why the Antifederalists opposed it
Analyze the Bill of Rights

Chapter 9 “Launching a New Republic”

Students will be able to:

Describe the decisions made by Washington and Congress that established precedents for later years
Summarize Hamilton’s plan to address the nation’s economic and financial issues

Chapter 10 “The Jefferson Era”

Students will be able to:

- Describe how the Democratic - Republican Party came to power
- Summarize Thomas Jefferson’s view of government and democracy
- Analyze the impact of *Marbury v. Madison*
- Identify boundaries of the Louisiana Purchase and explain how it changed the United States
- Summarize the Lewis and Clark expedition
- Describe the events that lead to the War of 1812
- Summarize the phases of the War of 1812 as well as its legacy

Grade 8 Literature

The book Elements of Literature will be used for eighth grade Literature. During the fourth quarter we will finish *Johnny Tremain* by Ester Forbes and begin covering Collection 3 “Being There.” While completing this unit the students will be complete worksheets, quizzes, comprehension questions, tests, and participate in class discussions.

Novel *Johnny Tremain* by Ester Forbes

“In Trouble” from *Woodson*

True Narrative

“Fast, Strong, and Friendly Too”

Article

“There Will Come Soft Rains”

Short Story

“The Circuit”

Short Story

“Cesar Chavez: He Made a Difference”

Article

“The Flying Machine”

Short Story

“The Dragon”

Graphic Story

“The Fog Horn”

Short Story

“Shipwreck at the Bottom of the World”

History

We will try and begin a second novel (fiction), *Bomb – The Race to Build – and Steal- The World’s Most Dangerous Weapons*, by Steve Sheinkin.

Grade 8 Religion

The book Catholic Connections will be used for eighth grade. A formal religion class will be taught four days a week. On Tuesdays we will attend mass. During the fourth quarter we will cover Chapters 8 through 11, along with finishing preparation for the Sacrament of Confirmation and preparing Masses. We will also spend a week covering “Think First and Stay Safe.”

Students will be able to:

- Share and reflect on life experiences of using oil in everyday life
- Celebrate and reflect on the ritual experience of being anointed
- Examine the connection between the Servant poems in the Book of Isaiah, Jesus’ ministry, and our life in Christ
- Discover that through the anointing with Chrism the baptized share in the gift of Salvation and in the mission of Jesus Christ
- Understand the historical development of the celebration of the Rite of Confirmation
- Appreciate the Catholic Social Teaching regarding the preferential option for the poor
- Make a faith decision to improve one’s sensitivity to people of cultures than one’s own
- Explore the history and meaning of the ritual exchange of the gift of God’s peace and integrate that meaning into fulfilling our mission to live as peacemakers
- Explore how our celebration of the Eucharist deepens our union with Christ and our solidarity with one another and especially with the poor
- Explore the dismissal at the end of Mass as a sending forth of the faithful on mission to take an active role in the Church’s mission of evangelization
- 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 the larger society
- Life is sacred from the moment of conception
- All life has dignity and should be protected
- Domestic violence and abuse are serious situations and sins against human dignity
- We must counter the violence in our society with proactive peace
- Stealing doesn’t involve taking just material possessions; it can involve taking intangible things as well
- Envy is wanting what others have, and it is one of the seven Capital Sins
- Words are incredibly powerful and can harm as well as praise