

## Grade 8 Curriculum

### Mathematics

#### Pre-Algebra

Text – Sadlier-Oxford: *Fundamentals of Algebra*

- Integers
- Algebraic Expressions
- Solving One-Step Equations & Inequalities
- Decimals & Equations
- Factors
- Fractions
- Exponents
- Operations Using Fractions with Variables
- Ratios/Proportions/Percent
- Solving Multi-Step Equations & Inequalities
- Data Analysis
- Problem Solving
- Linear Functions & Graphing

or

#### Algebra I (High School Algebra)

Text – McDougal Little: *Algebra*

- Variables & Equations
- Application & Problem Solving
- Integers & Absolute Values
- Real Numbers (Addition, Subtraction, Multiplication, & Division)
- Transforming Equations
- Solving Equations & Inequalities
- Solving Problems (Using Equations, Charts, & Formulas)
- Polynomials (Addition, Subtraction, Multiplication, & Division)
- Factoring Polynomials
- Algebraic Fractions (Addition, Subtraction, Multiplication, & Division)
- Equations Using Two Variables
- Linear Equations
- Solving Systems of Linear Equations
- Graphing Linear Equations and Inequalities

### Language Arts

Texts – Prentice Hall: *Prentice Hall Literature*; Holt, Rinehart & Winston: *Elements of Language*; Sadlier-Oxford: *Vocabulary Workshop*

#### Writing:

- Essays – Expository, Informational, Persuasive, Descriptive
- Friendly/Business Letters
- Narratives
- Creative Writing

### Language Arts – Writing (cont'd)

- Research Paper
- Poetry
- International Day Project
- Journaling

#### Literature:

- Short Story
- Nonfiction
- Fiction
- Novels
- Poetry
- Drama

#### Grammar:

- Parts of Speech
- Parts of a Sentence
- Phrases & Clauses
- Sentence Structure

#### Vocabulary:

- Content Clues
- Word Structure
- Word Origins
- Multiple Meanings
- Connotation/Denotation
- Writing Narratives Using Vocabulary Words

### Science

Text – Glencoe: *Physical Science*

- Models in Science
- Measurement
- Matter – Changes of State; Behavior of Fluids
- Atomic Structure
- Periodic Table of Elements
- Chemistry – Substances, Elements, Compounds, Solutions, Acids, Bases, & Salts
- Energy & Energy Resources
- Electricity
- Magnetism
- Simple Machines
- Bridges
- Sound



## Health

- Human Growth & Development
- Mental & Emotional Health – Mind/Body Relationship in Health & Disease
- Substance Abuse & Making Healthy Choices
- Physical Health/Types of Exercise
- Nutrition & Eating Disorders
- Accessing & Evaluating Health Information

## U.S. History

Text – Prentice Hall: American Nation – *Civil War to Present*

- Causes for Civil War
- Civil War
- Reconstruction Era
- Industrialization of U.S. Effects on Economy
- Modern U.S.: Changes in Foreign/Social Policy
- World War I
- 1920's
- Great Depression
- World War II

## World Geography

Text – Prentice Hall: World Geography – *Building a Global Perspective*

- Western Europe
- Eastern Europe
- Russia
- South/East Asia
- Middle East

## Religion

Texts – Loyola Press: *Christ Our Life*; Benziger: *Family Life*

- Christian History (Beginning with the Resurrection)
- Church Doctrine with Emphasis on the Creeds
- Liturgy & Sacraments
- Morality & the Family Life Program
- Catholic Social Teaching
- Christian Service (Quarterly Projects)
- Prayer
- Sunday Scripture

## Specials

- Art
- Music  
Text – McGraw Hill – *Share the Music*
- Computer – see separate sheet
- Library
- Spanish  
Text – McDougal: *Avancemos*
  - Engage in Conversation
  - Provide & Obtain Information
  - Understand Basic Grammar
  - Use Present Tense of Verbs
  - Develop Listening Skills
  - Develop & Practice Writing & Reading Skills
  - Describe Basic Spanish Traditions
- Physical Education – see separate sheet