Curriculum Overview - Eighth Grade

American History

Pre-Colonial America
Colonies in America
English Colonies
The American Revolution
Birth of the American Nation
Developments of the American Nation
Expansion of the American Nation
The Civil War
Reconstruction

Literature

Novels: The Outsiders; Across Five Aprils; Old Man and the Sea; Night
Skills: Point of View; Cause and Effect; Author Studies; Compare and Contrast; Characters; Setting; Plot Development; Reader Responses; Rising and Falling Action; Climax and Flashback; Imagery; Irony; Figurative Language; Paradox; Vocabulary;
Literature Genre: Suspense; Mystery; Historical; Drama; Macabre

Algebra

Variables; Exponents & Powers; Order of Operations; Equations and Inequalities;
Tables and Graphs; Introduction of Functions
Properties of Real Numbers; Number lines;
Solving Real Number Equations: Using Addition/Subtraction; Multistep Equations; Formulas & Functions; Decimal Equations; Ratios, Rates, Percents
Graphing Linear Equations and Functions: Coordinates; Plots; Graphs; Functions Writing Linear Equations: Slope Intercept; Point-Slope Form; Linear Model
Solving/Graphing Linear Equalities: Multistep Compound Inequalities; Absolute Value Equations; Mean/Median/Mode
Systems of Linear Equations/Inequalities: Solving; Special Types
Exponents/Exponential Functions: Properties; Growth; Decay
Quadratic Equations: Solving; Simplifying; Applications; Polynomials; Factoring; Properties
Rational Equations/Functions: Ratio & Proportion; Direct and Inverse Variations; Adding/Subtracting/Multiplying/Dividing Rational Expressions; Dividing Polynomials
Radicals and Connections to Geometry: Functions; Operations; Solving Radical Expressions; Pythagorean Theorem; Trigonometric Ratios

Geography

Climate, Environment & Resources
The World's People; Culture & Population
Global Connections
The Americas
Asia, Europe
Africa
The Pacific World

Introduction to Physical Science

Mass and Volume; Mass Changes in Closed Systems and Law of Conservation of Mass
Characteristic Properties; Density; Identification of Solubility: Introduces and Explores Solubility's of Solids, Liquids, Gases in Liquids and Gases Separation of Mixtures: Solids, Liquids, Gases Compounds and Elements which leads to the Discovery of Elements
Projects/Experiments: Heating Baking Soda; Measuring Volume by Displacement of Water; Sensitivity and Reliability of Balances; Study of Mass of Various Substances; Freezing; Boiling, and Melting Point; Density of Solids, Liquids, Gases; Comparing Concentrations of Saturated Solutions; Solubility
Separation of a Mixture of Solids; Paper Chromatography; Decomposition of Water; Experiments with Copper