## WHMS Middle School Curriculum Year A

### Cycle 1: Explorations and New Beginnings
**September - December**

- **Social Studies**
  - The Global Heritage of the American People Prior to 1500
  - European Exploration and Colonization of the Americas

- **ELA**
  - The Seven Habits of Highly Effective Teens
  - If I Ever Get Out of Here, a novel

- **Science**
  - Health and Human Body Systems
  - Astronomy and Space Systems: Cycles and Movement of the Sun, Moon, Earth, Planets and Stars

### Cycle 2: Change
**December - March**

- **Social Studies**
  - Colonial America: Life in the Northern, Middle and Southern Colonies
  - A Nation is Created: The American Revolution

- **ELA**
  - The Seven Habits of Highly Effective Teens
  - Short Stories
  - Drama as Literature
  - Middle School Play

- **Science**
  - Earth's History and Geologic Time
  - Energy Transformations and Natural Resources
  - The Design Process: Rube Goldberg/Design Project

### Cycle 3: Foundations
**March - June**

- **Social Studies**
  - Experiments in Government: Articles of Confederation, the NYS and the US Constitution

- **ELA**
  - The Seven Habits of Highly Effective Teens
  - Creative Writing
  - Personal Essays
  - Spelling, grammar and vocabulary development
  - Literature Circles with books focusing on the cycle theme

- **Science**
  - Physical Science of Oceans
  - Biological Science of Ocean Life

### Math 7

- Equations and Inequalities; Graphing:
  - Operations Containing Integers; Exponents and Scientific Notation; Rational and Real Numbers

- Collecting, Displaying, and Analyzing Data; Plane Figures; Patterns in Geometry; Perimeter and Area; Three-Dimensional Geometry

- Ratios, Rates and Proportions; Similarity and Scale; Applying Percents; Probability; Solving Linear Equations; Solving Equations and Inequalities

### Math 8/Algebra

- Measurement; Rational and Irrational Numbers, Exponents and Roots

- Proportions and Similarity; Measurement and Geometry/Geometric Relationships

- Multi-step Equations; Linear Functions: Graphing, Predicting and Analysis

- Relationships between Quantities and Reasoning with Equations and their Graphs, Linear and Exponential Functions

- Polynomial and Quadratic Expressions; Descriptive Statistics

- Equations and Functions; A Synthesis of Modeling with Equations and Functions