Math 6 is a two-semester course that is aligned to South Carolina State Standards. The course is designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Course topics include ratios and rates, fraction and decimal operations, and operations with integers. Students build their algebra skills by plotting points in all four quadrants of the coordinate plane, solving equations, and writing inequalities. Geometry topics include angle relationships, area, surface area, and volume.

Statistical work features measures of center and variability and box plots, and students gain a fundamental understanding of probability. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments. By constantly honing the ability to apply their knowledge in abstract and real-world scenarios, students build the depth of knowledge and higher-order skills required to demonstrate their mastery when put to the test.

Length: Two Semesters

Unit 1: Number Sense

- Decimal Operations
- Greatest Common Factor and Least Common Multiple
- Fraction Multiplication and Division
- Solving Problems with Fractions
- Rewriting and Comparing Fractions, Decimals, and Percents
- Wrap-Up: Number Sense

Unit 2: Integers

- Integers
- Inequalities and Comparison
- Absolute Value
- Wrap-Up: Integers

Unit 3: Operations with Integers

- Adding Integers
- Subtracting Integers
- Multiplying and Dividing Integers
- Wrap-Up: Operations with Integers

Unit 4: The Coordinate Plane

- Plotting Points on the Coordinate Plane
- Quadrants and Axes
- Using Graphs to Solve Problems
- Wrap-Up: The Coordinate Plane

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Unit 5: Ratios and Unit Rates

- Ratios
- Rates and Unit Rates
- Solving Percent Problems
- Unit Conversions
- Wrap-Up: Ratios and Unit Rates

Unit 6: Semester Wrap-Up

- Semester Wrap-Up

Unit 7: Numerical and Algebraic Expressions

- Exponents
- Expressions and Equations
- Evaluating Expressions
- Equivalent Expressions
- Wrap-Up: Numerical and Algebraic Expressions

Unit 8: Equations and Inequalities

- Solutions of Equations and Inequalities
- Solving Equations Using Addition and Subtraction
- Solving Equations Using Multiplication and Division
- Wrap-Up: Equations and Inequalities

Unit 9: Relationships between Variables

- Solving Inequalities
- Independent and Dependent Variables
- Multiple Representations: Tables, Graphs, and Equations
- Wrap-Up: Relationships between Variables

Unit 10: Geometry

- Geometric Drawings
- Angle Relationships
- Area
- Coordinate Geometry
- Volume
- Surface Area
- Wrap-Up: Geometry

Unit 11: Introduction to Data Analysis and Probability

- Collecting Data
- Measures of Center and Variability
- Box Plots
- Probability
- Wrap-Up: Introduction to Data Analysis and Probability

Unit 12: Semester 2 Exam

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- Semester Wrap Up

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