

Curriculum Map: Math 6

Course: MATH 6 Sub-topic: General

Grade(s): None specified

Course

Description: In Grade 6, instructional time should focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

Mathematics helps teachers create a rich classroom environment in which students at all levels become active, real-world problem solvers. Through teacher-led instruction, students develop mathematical reasoning, engage in discourse, and build strong mathematical habits. Mathematics helps teachers create a rich classroom environment in which students at all levels become active, real-world problem solvers. Through teacher-led instruction, students develop mathematical reasoning, engage in discourse, and build strong mathematical habits.

Unit: Unit 1: Expressions and Equations: Area, Algebraic Expressions, and Exponents

Topic: Lesson 1.1- Find the Area of a Parallelogram

Topic: Lesson 1.2- Find the Area of Triangles and Other Polygons

Topic: Lesson 1.3- Use Nets to Find Surface Area

Topic: Lesson 1.4- Work with Algebraic Expressions

Topic: Lesson 1.5- Write and Evaluate Expressions with Exponents

Topic: Lesson 1.6- Find Greatest Common Factor and Least Common Multiple

Unit: Unit 2: Decimals and Fractions: Base-Ten Operations, Division with Fractions, and Volume

Topic: Lesson 2.1 Add, Subtract, and Multiply Multi-digit decimals

Topic: Lesson 2.2 Divide Whole Numbers and Multi-digit decimals

Topic: Lesson 2.3 Understand Division with Fractions

Topic: Lesson 2.4 Divide Fractions

Topic: Lesson 2.5 Solve Volume Problems with fractions

Unit: Unit 3: Ratio Reasoning: Ratio Concepts and Equivalent Ratios

Topic: Lesson 3.1- Understand Ratio Concepts

Topic: Lesson 3.2- Find Equivalent Ratios

Topic: Lesson 3.3- Use Part-to-Part and Part-to-Whole Ratios

Unit: Unit 4: Ratio Reasoning: Unit Rates and Percent

Topic: Lesson 4.1 Understand Rate Concepts

Topic: Lesson 4.2 Use Unit Rates to Solve Problems

Topic: Lesson 4.3 Understand Percents

Topic: Lesson 4.4 Use Percents to Solve Problems

Unit: Unit 5: Algebraic Thinking: Equivalent Expressions and Equations with Variables

Topic: Lesson 5.1 Write and Identify Equivalent Expressions

Topic: Lesson 5.2 Understand Solutions of Equations

Topic: Lesson 5.3 Write and Solve One-Variable Equations

Topic: Lesson 5.4 Analyze Two-Variable Relationships

Unit: Unit 6: Positive and Negative Numbers: Absolute Value, Inequalities, and the Coordinate Plane

Topic: Lesson 6.1- Understand Positive and Negative Numbers

Topic: Lesson 6.2- Order Positive and Negative Numbers

Topic: Lesson 6.3- Understand Absolute Value

Topic: Lesson 6.4- Write and Graph One-Variable Inequalities

Topic: Lesson 6.5- Understand the Four-Quadrant Coordinate Plane

Topic: Lesson 6.6- Solve Problems in the Coordinate Plane

Unit: Unit 7: Statistical Thinking: Data Distributions and Measures of Center and Variability

Topic: Lesson 7.1- Understand Statistical Questions and Data Distributions

Topic: Lesson 7.2- Use Dot Plots and Histograms to Describe Data Distributions

Topic: Lesson 7.3- Interpret Median and Interquartile Range in Box Plots

Topic: Lesson 7.4- Interpret Mean and Mean Absolute Deviation

Topic: Lesson 7.5- Use Measures of Center and Variability to Summarize Data