

6th Grade Math Curriculum

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Covered Syllabus:

Section 1: Number System

- Whole Numbers
- Natural Numbers
- Integers
- Decimals

Section 2: Numerical Expressions and Factors

- Powers and Exponents
- Order of Operations
- Prime Factorization
- Greatest Common Factor
- Least Common Multiple

Section 3: Fractions and Decimals

- Multiplying Fractions
- Dividing Fractions
- Dividing Mixed Numbers
- Adding and Subtracting Decimals
- Multiplying Decimals
- Dividing Whole Numbers
- Dividing Decimals

Section 4: Ratios and Rates

- Ratios
- Using Tape Diagrams
- Using Ratio Tables
- Graphing Ratio Relationships
- Rates and Unit Rates
- Converting Measures

Section 5: Percents

- Percents and Fractions
- Percents and Decimals
- Comparing and Ordering Fractions, Decimals, and Percents
- Solving Percent Problems

Section 6: Algebraic Expressions and Properties

- Algebraic Expressions
- Writing Expressions
- Properties of Addition and Multiplication
- The Distributive Property
- Factoring Expressions

Section 7: Equations

- Writing Equations in One Variable
- Solving Equations Using Addition or Subtraction
- Solving Equations Using Multiplication or Division
- Writing Equations in Two Variables

Section 8: Area, Surface Area, and Volume

- Areas of Parallelograms
- Areas of Triangles
- Areas of Trapezoids and Kites
- Three-Dimensional Figures
- Surface Areas of Prisms
- Surface Areas of Pyramids
- Volumes of Rectangular Prisms

Section 9: Integers, Number Lines, and the Coordinate Plane

- Integers
- Comparing and Ordering Integers
- Rational Numbers
- Absolute Value
- The Coordinate Plane
- Polygons in the Coordinate Plane
- Writing and Graphing Inequalities
- Solving Inequalities

Section 10: Statistical Measures

- Introduction to Statistics
- Mean

- Measures of Center
- Measures of Variation
- Mean Absolute Deviation

Section 11: Data Displays

- Stem-and-Leaf Plots
- Histograms
- Shapes of Distributions
- Choosing Appropriate Measures
- Box-and-Whisker Plots

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