

Mathematics

Year at a Glance

Kindergarten

Quarter 1

- Unit of Study 1.1: Counting, Classifying, and Number Sense (15 days)
- Unit of Study 1.2: Identify, Describe, and Locate Shapes in the Environment (10 days)
- Unit of Study 1.3: Counting and Labeling Sets up to 10 Objects (15 days)

Quarter 2

- Unit of Study 2.1: Counting and Counting Forward Up to 50 (5 days)
- Unit of Study 2.2: Extend Understanding of Number by Classifying and Comparing Groups of Objects (10 days)
- Unit of Study 2.3: Composing/Decomposing to 10 (10 days)
- Unit of Study 2.4: Adding Whole Numbers up to 10 (15 days)

Quarter 3

- Unit of Study 3.1: Subtracting Whole Numbers within 10 (10 days)
- Unit of Study 3.2: Developing Number Sense and Labeling Sets (10 days)
- Unit of Study 3.3: Identifying, Analyzing, and Comparing 2-D and 3-D Objects (10 days)
- Unit of Study 3.4: Composing/Decomposing to 10 with Recording (10 days)

Quarter 4

- Unit of Study 4.1: Developing Number Sense Through Counting and Comparison (5 days)
- Unit of Study 4.2: Addition and Subtraction to 10 (15 days)
- Unit of Study 4.3: Foundations of Base Ten (10 days)
- Unit of Study 4.4: Analyzing, Comparing, and Composing Shapes (10 days)

Grade 1

Quarter 1

- Unit of Study 1.1: Exploring Number Fluency (5 days)
- Unit of Study 1.2: Developing the Concept of Time to the Hour as it Relates to Number (5 days)
- Unit of Study 1.3: Representing and Interpreting Data (7 days)
- Unit of Study 1.4: Reading and Writing Numerals (5 days)
- Unit of Study 1.5: Understanding the Tens Place (10 days)
- Unit of Study 1.6: Developing the Power of 10 as it Relates to Digit Placement in a Teen Number (8 days)

Quarter 2

- Unit of Study 2.1: Expanding the Concept of Time to the Half Hour as it Relates to Number (5 days)
- Unit of Study 2.2: Relating Addition and Subtraction Using Benchmark Numbers (10 days)
- Unit of Study 2.3: Subtracting Multiples of 10 (10 days)
- Unit of Study 2.4: Understanding Equality (10 days)
- Unit of Study 2.5: Exploring the Attributes of Shapes (10 days)

Quarter 3

- Unit of Study 3.1: Developing the Operations of Addition and Subtraction to 20 (10 days)
- Unit of Study 3.2: Using Properties of Operations to Solve Problems (10 days)
- Unit of Study 3.3: Using Addition and Subtraction to Find Unknown Addends or Subtrahends (10 days)
- Unit of Study 3.4: Solving Addition and Subtraction Word Problems (10 days)

Quarter 4

- Unit of Study 4.1: Adding Multiple Numbers to Solve Word Problems (10 days)
- Unit of Study 4.2: Using Place Value to Add Combinations of 1- and 2-Digit Addends (10 days)
- Unit of Study 4.3: Comparing 2-Digit Numbers (10 days)
- Unit of Study 4.4: Connecting Numbers to Linear Measurement (5 days)
- Unit of Study 4.5: Connecting the Concepts of Equal Parts/Shares to Fractional Terms (5 days)

Grade 2

Quarter 1

- Unit of Study 1.1: Applying Strategies to Addition and Subtraction Problems (10 days)
- Unit of Study 1.2: Develop an Understanding of Place Value (1s, 10s, 100s) (15 days)
- Unit of Study 1.3: Understanding Addition and Subtraction and Relating Those Operations to Linear Models (15 days)

Quarter 2

- Unit of Study 2.1: Develop an Understanding of Linear Measurement by Using Standard Units and Estimating Length (10 days)
- Unit of Study 2.2: Develop an Understanding of Place Value to 1,000 (12 days)
- Unit of Study 2.3: Count Money to Solve Money Problems (6 days)
- Unit of Study 2.4: Apply Addition and Subtraction Strategies Within 100 to Solve Problems (12 days)

Quarter 3

- Unit of Study 3.1: Use Shapes and Their Attributes to Explore Fractions (10 days)
- Unit of Study 3.2: Explore Multiplication Using Concrete Models (5 days)
- Unit of Study 3.3: Apply Addition and Subtraction Strategies to Solve Problems (10 days)
- Unit of Study 3.4: Represent and Interpret Data (8 days)
- Unit of Study 3.5: Tell Time to Nearest 5 Minutes (7 days)

Quarter 4

- Unit of Study 4.1: Problem Solving with Money (6 days)
- Unit of Study 4.2: Use Place Value, Composition, and Decomposition to Solve Addition Problems (12 days)
- Unit of Study 4.3: Use Place Value, Composition, and Decomposition to Solve Subtraction Problems (12 days)
- Unit of Study 4.4: Collect, Represent, and Interpret Data (10 days)

Grade 3**Quarter 1**

- Unit of Study 1.1: Applying Place Value to Addition and Rounding (15 days)
- Unit of Study 1.2: Using and Applying Addition and Subtraction Strategies to Solve Problems (10 days)
- Unit of Study 1.3: Exploring Multiplication (10 days)
- Unit of Study 1.4: Developing Multiplication Strategies (10 days)

Quarter 2

- Unit of Study 2.1: Understanding Properties of Division (15 days)
- Unit of Study 2.2: Applying Multiplication and Division Strategies to Problem Solving (15 days)
- Unit of Study 2.3: Measuring Area (10 days)

Quarter 3

- Unit of Study 3.1: Understanding Area as It Relates to Multiplication and Division (10 days)
- Unit of Study 3.2: Understanding Fractions as Numbers (15 days)
- Unit of Study 3.3: Comparing Fractions with Models and Reasoning (15 days)

Quarter 4

- Unit of Study 4.1: Measuring Mass and Volume (10 days)
- Unit of Study 4.2: Telling Time and Solving Problems with Time Intervals (10 days)
- Unit of Study 4.3: Creating and Using Picture and Bar Graphs to Solve Problems (10 days)
- Unit of Study 4.4: Attributes of 2-D Shapes and Perimeter (10 days)

Grade 4**Quarter 1**

- Unit of Study 1.1: Place Value for Multidigit Whole Numbers to 1,000,000 (10 days)
- Unit of Study 1.2: Exploring the Properties of Addition and Subtraction of Whole Numbers to 1,000,000 (10 days)
- Unit of Study 1.3: Expanding Understanding of Patterns in Multiplication and Division (10 days)
- Unit of Study 1.4: Understanding Fractions by Ordering and Comparing (10 days)

Quarter 2

- Unit of Study 2.1: Adding and Subtracting Fractions and Mixed Numbers (10 days)
- Unit of Study 2.2: Developing Understanding of Multidigit Multiplication (15 days)
- Unit of Study 2.3: Developing Understanding of Division with Remainders (15 days)

Quarter 3

- Unit of Study 3.1: Exploring Properties of 2-Dimensional Figures (15 days)
- Unit of Study 3.2: Applying Multiplication to Fractions (10 days)
- Unit of Study 3.3: Understanding the Relationship of Fractions and Decimals (15 days)

Quarter 4

- Unit of Study 4.1: Applying Knowledge of Measurement to Make Conversions (15 days)
- Unit of Study 4.2: Interpreting and Representing Data with Fractions (5 days)
- Unit of Study 4.3: Using Algebraic Thinking to Solve Multistep Problems with All Operations (15 days)

Grade 5

Quarter 1

- Unit of Study 1.1: Understanding Place Value of Whole Numbers and Decimals Including Rounding (14 days)
- Unit of Study 1.2: Comparing, Ordering, and Rounding Decimals (6 days)
- Unit of Study 1.3: Addition and Multiplication of Whole Numbers and Decimals (10 days)
- Unit of Study 1.4: Subtraction and Division of Whole Numbers and Decimals (10 days)

Quarter 2

- Unit of Study 2.1: Add and Subtract Fractions (10 days)
- Unit of Study 2.2: Understanding Multiplication to Multiply Fractions (10 days)
- Unit of Study 2.3: Interpreting Multiplication as Scaling or Resizing (5 days)
- Unit of Study 2.4: Understanding Division to Divide Fractions (10 days)
- Unit of Study 2.5: Solving Problems Involving Multiplication and Division of Fractions and Mixed Numbers (10 days)

Quarter 3

- Unit of Study 3.1: Understanding and Measuring Volume Using Manipulatives (12 days)
- Unit of Study 3.2: Linking Concrete Measurement of Volume to the Use of Formulas (12 days)
- Unit of Study 3.3: Solving Real-World Problems Involving Volume (10 days)
- Unit of Study 3.4: Using Measurement Conversions (6 days)

Quarter 4

- Unit of Study 4.1: Representing and Interpreting Data on a Line Plot (8 days)
- Unit of Study 4.2: Using a Coordinate Grid to Graph Points and to Analyze Patterns and Relationships (10 days)
- Unit of Study 4.3: Classifying 2-D Figures (6 days)
- Unit of Study 4.4: Write, Understand, and Interpret Numerical Expressions (7 days)

Grade 6**Quarter 1**

- Unit of Study 1.1: Understanding Ratios and Rates (10 days)
- Unit of Study 1.2: Reasoning Proportionally with Percents (10 days)
- Unit of Study 1.3: Applications of Ratios and Rates (12 days)
- Unit of Study 1.4: Division of Fractions Using Models (8 days)

Quarter 2

- Unit of Study 2.1: Understanding Rational Numbers and Absolute Value (12 days)
- Unit of Study 2.2: Graphing on the Coordinate Grid (12 days)
- Unit of Study 2.3: Working With Algebraic Expressions (8 days)
- Unit of Study 2.4: Understanding Equations and Inequalities (12 days)

Quarter 3

- Unit of Study 3.1: Writing and Solving Equations and Inequalities (13 days)
- Unit of Study 3.2: Problem Solving with Area and 2-D Shapes (13 days)
- Unit of Study 3.3: Problem Solving with Volume and Surface Area (13 days)

Quarter 4

- Unit of Study 4.1: Multidigit Computation and Finding Common Factors and Multiples (12 days)
- Unit of Study 4.2: Understanding Statistical Variability (10 days)
- Unit of Study 4.3: Displaying, Analyzing, and Summarizing Data (15 days)

Grade 7

Quarter 1

- Unit of Study 1.1: Positive Rational Number Operations (10 days)
- Unit of Study 1.2: Understanding Positive and Negative Rational Number Operations (20 days)
- Unit of Study 1.3: Representing Ratios and Unit Rates (10 days)

Quarter 2

- Unit of Study 2.1: Proportional Reasoning with Rates (10 days)
- Unit of Study 2.2: Proportional Reasoning with Percents (10 days)
- Unit of Study 2.3: Analyzing Proportional Relationships with Equations and Graphs (10 days)
- Unit of Study 2.4: Applying Proportional Reasoning to Geometry (12 days)

Quarter 3

- Unit of Study 3.1: Generating Equivalent Expressions (8 days)
- Unit of Study 3.2: Solving Word Problems Algebraically (15 days)
- Unit of Study 3.3: Investigating Chance (10 days)
- Unit of Study 3.4: Compound Events (10 days)

Quarter 4

- Unit of Study 4.1: Populations and Samples (10 days)
- Unit of Study 4.2: Finding Geometric Measures Algebraically (10 days)
- Unit of Study 4.3: Geometry Constructions (5 days)
- Unit of Study 4.4: Two- and Three-Dimensional Figures (10 days)

Grade 8**Quarter 1**

- Unit of Study 1.1: Transformations (10 days)
Unit of Study 1.2: Congruence (10 days)
Unit of Study 1.3: Similarity (10 days)
Unit of Study 1.4: Pythagorean Theorem (12 days)

Quarter 2

- Unit of Study 2.1: Rational and Irrational Numbers (10 days)
Unit of Study 2.2: Radicals and Operations/Properties of Integer Exponents (12 days)
Unit of Study 2.3: Solving Linear Equations in One Variable (20 days)

Quarter 3

- Unit of Study 3.1: Define, Evaluate, and Compare Functions (15 days)
Unit of Study 3.2: Use Functions to Model Relationships (15 days)
Unit of Study 3.3: Solving Systems of Linear Equations (17 days)

Quarter 4

- Unit of Study 4.1: Applying Systems of Linear Equations (5 days)
Unit of Study 4.2: Scatterplots and Line of Best Fit (5 days)
Unit of Study 4.3: Transversals and Angle Relationships (10 days)
Unit of Study 4.4: Volume (6 days)

Algebra 1

Quarter 1

- Unit of Study 1.1: Interpreting Data (10 days)
- Unit of Study 1.2: Creating and Solving Linear Equations (20 days)
- Unit of Study 1.3: Creating and Solving Linear Inequalities (10 days)

Quarter 2

- Unit of Study 2.1: Relations and Functions (10 days)
- Unit of Study 2.2: Linear Functions (15 days)
- Unit of Study 2.3: Solving Systems of Linear Equations (15 days)

Quarter 3

- Unit of Study 3.1: Solving Word Problems Using Systems of Equations (10 days)
- Unit of Study 3.2: Systems of Linear Inequalities (15 days)
- Unit of Study 3.3: Exponents and Exponential Functions (15 days)

Quarter 4

- Unit of Study 4.1: Operations and Characteristics of Polynomials (10 days)
- Unit of Study 4.2: Graphing and Transformations of Quadratic Functions (5 days)
- Unit of Study 4.3: Solving and Applying Quadratics (15 days)
- Unit of Study 4.4: Special Functions (8 days)

Geometry

Quarter 1

- Unit of Study 1.1: Line Segments, Distance, and Midpoint (8 days)
- Unit of Study 1.2: Transformations (13 days)
- Unit of Study 1.3: Segment and Angle Relationships (14 days)

Quarter 2

- Unit of Study 2.1: Properties of Triangles (6 days)
- Unit of Study 2.2: Congruency of Triangles (5 days)
- Unit of Study 2.3: Quadrilaterals (13 days)
- Unit of Study 2.4: Dilations (13 days)

Quarter 3

- Unit of Study 3.1: Similar Triangles (11 days)
- Unit of Study 3.2: Trigonometry (12 days)
- Unit of Study 3.3: Perimeter and Area (5 days)
- Unit of Study 3.4: Volume (12 days)

Quarter 4

- Unit of Study 4.1: Circles (15 days)
- Unit of Study 4.2: Equations of Circles and Parabolas (5 days)
- Unit of Study 4.3: Probability (15 days)
- Unit of Study 4.4: Applications of Probability (5 days)

Algebra 2

Quarter 1

- Unit of Study 1.1: Probability (4 days)
- Unit of Study 1.2: Statistical Studies (10 days)
- Unit of Study 1.3: Series and Sequences (6 days)
- Unit of Study 1.4: Using and Interpreting Function Models, Including Regression Models (6 days)
- Unit of Study 1.5: Systems of Equations (6 days)
- Unit of Study 1.6: Quadratic Functions and the Complex Number System (8 days)

Quarter 2

- Unit of Study 2.1: Quadratics and Other Polynomials (15 days)
- Unit of Study 2.2: Applications of Polynomials (10 days)
- Unit of Study 2.3: Rational Functions (14 days)

Quarter 3

- Unit of Study 3.1: Inequalities and Absolute Value (5 days)
- Unit of Study 3.2: Radical Functions (15 days)
- Unit of Study 3.3: Exponential and Logarithmic Functions (15 days)

Quarter 4

- Unit of Study 4.1: Symmetry and Transformations (10 days)
- Unit of Study 4.2: The Unit Circle and Simple Trigonometric Identities (15 days)
- Unit of Study 4.3: Modeling with Trigonometric Functions (10 days)

Precalculus

Quarter 1

- Unit of Study 1.1: Conic Sections—Ellipses and Hyperbolas (12 days)
- Unit of Study 1.2: Graphing Rational Functions (10 days)
- Unit of Study 1.3: Inverse Functions (10 days)
- Unit of Study 1.4: Composite Functions (8 days)

Quarter 2

- Unit of Study 2.1: Graphing Logarithmic Functions (8 days)
- Unit of Study 2.2: Trigonometric Functions and the Unit Circle (10 days)
- Unit of Study 2.3: Graphing and Interpreting Trigonometric Functions (10 days)
- Unit of Study 2.4: Trigonometric Identities (12 days)

Quarter 3

- Unit of Study 3.1: Trigonometric Equations and Inverses (10 days)
- Unit of Study 3.2: Rectangular and Polar Representations and the Complex Coordinate Plane (15 days)
- Unit of Study 3.3: Sequences and Series (15 days)

Quarter 4

- Unit of Study 4.1: Matrices (9 days)
- Unit of Study 4.2: Modeling Vectors (9 days)
- Unit of Study 4.3: Vector Operations (12 days)
- Unit of Study 4.4: Cavalieri's Principle (6 days)

