

Principles of Middle School Math 1

Scope & Sequence

★ Unit 1 | The Rational Number System: The Coordinate Plane

Topic 1: Understand Integers & Rational Numbers (6.NOS.C.5)

Topic 2: Represent Rational Numbers on a Number Line (6.NOS.C.6.a/b/c)

Topic 3: Absolute Values of Rational Numbers (6.NOS.C.8.a/b/c)

Topic 4: Represent Rational Numbers on the Coordinate Plane (6.NOS.C.7.a/b)

Topic 5: Find Distances on the Coordinate Plane (6.NOS.C.9.a/b)

Topic 6: Represent Polygons in the Coordinate Plane (6.GR.A.3)

★ Unit 2 | The Rational Number System: Decimals

Topic 1: Multiplying Decimals: Estimation Strategies (6.NOS.B.3.a)

Topic 2: Multiplying Decimals (6.NOS.B.3.a/b/c/d)

Topic 3: Dividing Multi-Digit Numbers (6.NOS.B.2.a/b/c/d)

Topic 4: Dividing Decimals: Estimation Strategies (6.NOS.B.3.a)

Topic 5: Dividing Decimals (6.NOS.B.3.a/b/c/d)

★ Unit 3 | The Rational Number System: Fractions

Topic 1: Greatest Common Factor (6.NOS.B.4.a)

Topic 2: Least Common Multiple (6.NOS.B.4.b)

Topic 3: Understand Division with Fractions (6.NOS.A.1.b)

Topic 4: Dividing Fractions (6.NOS.A.1.a/c)

★ Unit 4 | Numeric & Algebraic Expressions

Topic 1: Understand & Represent Exponents (supports 6.AT.B.5)

Topic 2: Write & Evaluate Numeric Expressions (6.AT.B.5)

Topic 3: Write Algebraic Expressions (6.AT.B.6.a/b)

Topic 4: Evaluate Algebraic Expressions (6.AT.B.6.c)

Topic 5: The Distributive Property & Factoring (6.NOS.B.4.c, 6.AT.B.7)

Topic 6: Generate Equivalent Expressions (6.AT.B.7)

★ Unit 5 | Represent & Solve Equations & Inequalities

Topic 1: Understand Equations & Solutions (6.AT.C.8.a)

Topic 2: Apply Properties of Equality (supports 6.AT.C.8.b)

Topic 3: Write and Solve Addition & Subtraction Equations (6.AT.C.8.b/c)

Topic 4: Write and Solve Multiplication & Division Equations (6.AT.C.8.b/c)

Topic 5: Understand & Write Inequalities (6.AT.C.9)

Topic 6: Graph Solution Sets of Inequalities (6.AT.C.9)

Topic 7: Write & Solve Single-Step Inequalities (6.AT.C.10.a/b/c)

★ Performance Task

Topic 1: Understand Independent & Dependent Variables (6.AT.D.11.a)

Topic 2: Use Patterns to Write & Solve Equations (6.AT.D.11.a)

Topic 3: Relate Tables, Graphs, & Equations (6.AT.D.11.b)

★ Unit 6 | Understand and Use Ratios & Rate

Topic 1: Understand Ratios (6.AT.A.1)

Topic 2: Understand Rates & Unit Rates (6.AT.A.2.a)

Topic 3: Reason with Ratios & Unit Rates (6.AT.A.3.a/b)

Topic 4: Solve Unit Rate Problems (6.AT.A.2.b)

Topic 5: Ratio Reasoning with Measurement Conversions (6.AT.A.3.c)

Topic 6: Understand Percent (6.AT.A.4)

Topic 7: Find the Percent of a Number (6.AT.A.4)

Topic 8: Find the Whole Given a Part and the Percent (6.AT.A.4)

★ Unit 7 | Geometry

Topic 1: Find Areas of Parallelograms & Rhombi (6.GR.A.1)

Topic 2: Find Areas of Triangles (6.GR.A.1)

Topic 3: Find Areas of Trapezoids (6.GR.A.1)

Topic 4: Find Areas of Polygons & Composite Figures (6.GR.A.1)

Topic 5: Represent Solid Figures Using Nets (6.GR.A.4)

Topic 6: Find Surface Areas of Prisms (6.GR.A.4)

Topic 7: Find Surface Areas of Pyramids (6.GR.A.4)

Topic 8: Find Volumes of Right Rectangular Prisms (6.GR.A.2.a/b)

★ Unit 8 | Statistics

Topic 1: Recognize Statistical Questions (6.DS.A.1)

Topic 2: Data from Statistical Questions (6.DS.A.3, 6.DS.A.2)

Topic 3: Summarize Data Using Measures of Center & Variability (6.DS.A.4)

Topic 4: Interpret Data in Line & Box Plots (6.DS.B.5)

Topic 5: Interpret Data in Histograms (6.DS.B.5)

Topic 6: Choose Appropriate Statistical Measures (6.DS.B.6.d)

Topic 7: Summarize Data Distributions (6.DS.B.6.a/b/c/d)