

GRADE 6 - ADVANCED MATH

MAJOR UNITS/TOPICS	ASSESSMENTS/PROJECTS
Unit 1: The Number System ● Prime Factorization (1.2) ● Common Factors and Multiples (1.3) ● Squares and Square Roots (1.4) ● Cube and Cube Roots(1.5)	projects, will be designed to fit each class setting.
Unit 2: The Number System ● The Number Line (1.1) ● Negative Numbers(2.1) ● Absolute Value(2.2) ● Representing Numbers on a Number Line(1.1) ● Introducing Irrational Numbers (1.3) ● Introducing the Real Number System (1.4)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 3: The Number System ● Dividing Fractions (3.1) ● Multiplying Decimals (3.2) ● Dividing Decimals (3.3) ● Real-World Problems: Fractions and Decimal(3.4)s ● Writing Rational Numbers as Decimals (1.2)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 4: Rational Number Operations ● Adding Integers(2.1) ● Subtracting Integers(2.2) ● Multiplying and Dividing Integers (2.3) ● Operations with Integers (2.4)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.

• Operations with Rational Numbers (2.5) • Operations with Decimals (2.6)	
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Unit 5: Expressions • Writing Algebraic Expressions (7.1, 3.6) • Evaluate Algebraic Expressions (7.2) • Adding Algebraic Terms (3.1) • Subtracting Algebraic Terms (3.2) • Simplifying Algebraic Expressions (7.3, 3.3) • Expanding and Factoring Algebraic Expressions (7.4, 3.4, 3.5) • Real World Problems: Algebraic Expressions (7.5) • Real World Problems: Algebraic Reasoning (3.7)	In class assignments, homework, tests/quizzes, projects will be designed to fit each class setting.
MAJOR UNITS/TOPICS	ASSIGNMENTS/PROJECTS
Unit 6: Equations and Inequalities Unit 4 - 7th • Solve Algebraic Equations (8.1) • Writing Linear Equations (8.2) • Understanding Equivalent Equations • Real World Problems: Algebraic Equations • Solving Algebraic Inequalities • Real World Problems: Algebraic Inequalities	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.

Unit 7: Ratio, Rates, and Unit Rates ● Comparing Two Quantities (4.1) ● Equivalent Ratios (4.2) ● Real World Problems: Involving Ratios (4.3) ● Rates and Unit Rates (5.1) ● Real World Problems: Rates and Unit Rates (5.2)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 8: Percent ● Understanding Percent (6.1) ● Fraction, Decimals, and Percents (6.2) ● Percent of a Quantity (6.3) ● Real World Problems: Percents (6.4) ● Percent of Change (6.5)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 9: Direct and Inverse Proportion ● Understanding Direct Proportion (5.1) ● Representing Direct Proportion Graphically (5.2) ● Solving Direct Proportion Problems (5.3) ● Understanding Inverse Proportion (5.4)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.

Unit 10: Geometry ● Points on the Coordinate Plane (9.4) ● Length of Line Segments (9.2) ● Real World Problems: Graphing (9.3) ● Complementary, Supplementary, and Adjacent Angles (6.1) ● Angles that Share a Vertex (6.2) ● Alternate Interior, Alternate Exterior, and Corresponding Angles (6.3) ● Interior and Exterior Angles in a Triangle (6.4)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
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MAJOR UNITS/TOPICS	ASSESSMENTS/PROJECTS
Unit 11: Geometry ● Area of Triangles (10.1) ● Area of Parallelograms and Trapezoid (10.2) ● Area of Other Polygons (10.30) ● Area of Composite Figures (10.4) ● Radius, Diameter, and Circumference of a Circle (11.1) ● Area of a Circle (11.2) ● Real World Problems: Circles (11.3)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 12: Surface Area ● Nets of nSolids (12.1) ● Surface Area of Solids (12.2) ● Recognising Cylinders, Cones, Spheres, and	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.

- Pyramids (8.1) - Finding Surface Area of Cylinder (8.2) - Finding Surface Area of Cones (8.3) - Finding Surface Area of Spheres (8.4) - Composite Figures (8.5)	
Unit 13: Volume - Understanding and Measuring Volume (12.3) - Finding Volume of Prisms (12.3) - Finding Volume of Cylinders (8.2) - Finding Volume of Pyramids and Cones (8.3) - Finding Volume of Spheres(8.4) - Composite Figures (8.5)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
Unit 14: Statistics and Probability - Mean, Median, and Mode (14.1, 14.2, 14.3) - Real World Problems: Mean, Median, and Mode (14.4) - Interpreting Quartiles and Interquartile Range (9.1) - Stem-and-Leaf Plots (9.2) - Understanding Box Plots (9.3)	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.