

**GRADE 6 - ADVANCED MATH**

<b>MAJOR UNITS/TOPICS</b>	<b>ASSESSMENTS/PROJECTS</b>
<b>Unit 1: The Number System</b> <ul style="list-style-type: none"><li>● <b>Prime Factorization (1.2)</b></li><li>● <b>Common Factors and Multiples (1.3)</b></li><li>● <b>Squares and Square Roots (1.4)</b></li><li>● <b>Cube and Cube Roots(1.5)</b></li></ul>	projects, will be designed to fit each class setting.
<b>Unit 2: The Number System</b> <ul style="list-style-type: none"><li>● <b>The Number Line (1.1)</b></li><li>● <b>Negative Numbers(2.1)</b></li><li>● <b>Absolute Value(2.2)</b></li><li>● <b>Representing Numbers on a Number Line(1.1)</b></li><li>● <b>Introducing Irrational Numbers (1.3)</b></li><li>● <b>Introducing the Real Number System (1.4)</b></li></ul>	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
<b>Unit 3: The Number System</b> <ul style="list-style-type: none"><li>● <b>Dividing Fractions (3.1)</b></li><li>● <b>Multiplying Decimals (3.2)</b></li><li>● <b>Dividing Decimals (3.3)</b></li><li>● <b>Real-World Problems: Fractions and Decimal(3.4)s</b></li><li>● <b>Writing Rational Numbers as Decimals (1.2)</b></li></ul>	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.
<b>Unit 4: Rational Number Operations</b> <ul style="list-style-type: none"><li>● <b>Adding Integers(2.1)</b></li><li>● <b>Subtracting Integers(2.2)</b></li><li>● <b>Multiplying and Dividing Integers (2.3)</b></li><li>● <b>Operations with Integers (2.4)</b></li></ul>	In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.

<ul style="list-style-type: none"> <li>● <b>Operations with Rational Numbers (2.5)</b></li> <li>● <b>Operations with Decimals (2.6)</b></li> </ul>	
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<p><b>Unit 5: Expressions</b></p> <ul style="list-style-type: none"> <li>● <b>Writing Algebraic Expressions (7.1, 3.6)</b></li> <li>● <b>Evaluate Algebraic Expressions (7.2)</b></li> <li>● <b>Adding Algebraic Terms (3.1)</b></li> <li>● <b>Subtracting Algebraic Terms (3.2)</b></li> <li>● <b>Simplifying Algebraic Expressions (7.3, 3.3)</b></li> <li>● <b>Expanding and Factoring Algebraic Expressions (7.4, 3.4, 3.5)</b></li> <li>● <b>Real World Problems: Algebraic Expressions (7.5)</b></li> <li>● <b>Real World Problems: Algebraic Reasoning (3.7)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects will be designed to fit each class setting.</p>
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<p><b>Unit 6: Equations and Inequalities</b> <b>Unit 4 - 7th</b></p> <ul style="list-style-type: none"> <li>● <b>Solve Algebraic Equations (8.1)</b></li> <li>● <b>Writing Linear Equations (8.2)</b></li> <li>● <b>Understanding Equivalent Equations</b></li> <li>● <b>Real World Problems: Algebraic Equations</b></li> <li>● <b>Solving Algebraic Inequalities</b></li> <li>● <b>Real World Problems: Algebraic Inequalities</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
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<p><b>Unit 7: Ratio, Rates, and Unit Rates</b></p> <ul style="list-style-type: none"> <li>● <b>Comparing Two Quantities (4.1)</b></li> <li>● <b>Equivalent Ratios (4.2)</b></li> <li>● <b>Real World Problems: Involving Ratios (4.3)</b></li> <li>● <b>Rates and Unit Rates (5.1)</b></li> <li>● <b>Real World Problems: Rates and Unit Rates (5.2)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
<p><b>Unit 8: Percent</b></p> <ul style="list-style-type: none"> <li>● <b>Understanding Percent (6.1)</b></li> <li>● <b>Fraction, Decimals, and Percents (6.2)</b></li> <li>● <b>Percent of a Quantity (6.3)</b></li> <li>● <b>Real World Problems: Percents (6.4)</b></li> <li>● <b>Percent of Change (6.5)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
<p><b>Unit 9: Direct and Inverse Proportion</b></p> <ul style="list-style-type: none"> <li>● <b>Understanding Direct Proportion (5.1)</b></li> <li>● <b>Representing Direct Proportion Graphically (5.2)</b></li> <li>● <b>Solving Direct Proportion Problems (5.3)</b></li> <li>● <b>Understanding Inverse Proportion (5.4)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>

<p><b>Unit 10: Geometry</b></p> <ul style="list-style-type: none"> <li>● <b>Points on the Coordinate Plane (9.4)</b></li> <li>● <b>Length of Line Segments (9.2)</b></li> <li>● <b>Real World Problems: Graphing (9.3)</b></li> <li>● <b>Complementary, Supplementary, and Adjacent Angles (6.1)</b></li> <li>● <b>Angles that Share a Vertex (6.2)</b></li> <li>● <b>Alternate Interior, Alternate Exterior, and Corresponding Angles (6.3)</b></li> <li>● <b>Interior and Exterior Angles in a Triangle (6.4)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
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<p><b>Unit 11: Geometry</b></p> <ul style="list-style-type: none"> <li>● <b>Area of Triangles (10.1)</b></li> <li>● <b>Area of Parallelograms and Trapezoid (10.2)</b></li> <li>● <b>Area of Other Polygons (10.30)</b></li> <li>● <b>Area of Composite Figures (10.4)</b></li> <li>● <b>Radius, Diameter, and Circumference of a Circle (11.1)</b></li> <li>● <b>Area of a Circle (11.2)</b></li> <li>● <b>Real World Problems: Circles (11.3)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
<p><b>Unit 12: Surface Area</b></p> <ul style="list-style-type: none"> <li>● <b>Nets of nSolids (12.1)</b></li> <li>● <b>Surface Area of Solids (12.2)</b></li> <li>● <b>Recognising Cylinders, Cones, Spheres, and</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>

<ul style="list-style-type: none"> <li>● <b>Pyramids (8.1)</b></li> <li>● <b>Finding Surface Area of Cylinder (8.2)</b></li> <li>● <b>Finding Surface Area of Cones (8.3)</b></li> <li>● <b>Finding Surface Area of Spheres (8.4)</b></li> <li>● <b>Composite Figures (8.5)</b></li> </ul>	
<p><b>Unit 13: Volume</b></p> <ul style="list-style-type: none"> <li>● <b>Understanding and Measuring Volume (12.3)</b></li> <li>● <b>Finding Volume of Prisms (12.3)</b></li> <li>● <b>Finding Volume of Cylinders (8.2)</b></li> <li>● <b>Finding Volume of Pyramids and Cones (8.3)</b></li> <li>● <b>Finding Volume of Spheres(8.4)</b></li> <li>● <b>Composite Figures (8.5)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>
<p><b>Unit 14: Statistics and Probability</b></p> <ul style="list-style-type: none"> <li>● <b>Mean, Median, and Mode (14.1, 14.2, 14.3)</b></li> <li>● <b>Real World Problems: Mean, Median, and Mode (14.4)</b></li> <li>● <b>Interpreting Quartiles and Interquartile Range (9.1)</b></li> <li>● <b>Stem-and-Leaf Plots (9.2)</b></li> <li>● <b>Understanding Box Plots (9.3)</b></li> </ul>	<p>In class assignments, homework, tests/quizzes, projects, will be designed to fit each class setting.</p>