

Mathematics Grade 6 Year-Long Curriculum Map

11" x 17"

Sequential

Inquiry Modules	Critical Focus Areas	Student Focal Points	Sense-Making CONCEPTS Standards	Sense-Making STRATEGIES Standards	Sense-Making APPLICATION/ MODELING Standards
A. <b>Fluency with Multi-Digit Computation</b>	<ul style="list-style-type: none"> <li>System of Rational Numbers</li> </ul>	<ol style="list-style-type: none"> <li>Using and explaining the standard algorithm for division of multi-digit whole numbers</li> <li>Using and explaining the standard algorithms for all operations (adding, subtracting, multiplying, and dividing) multi-digit whole numbers</li> </ol>		6.NS.2, 6.NS.3	
B. <b>Division of Fractions</b>	<ul style="list-style-type: none"> <li>System of Rational Numbers</li> </ul>	<ol style="list-style-type: none"> <li>Using models to understand division of fractions</li> <li>Creating and solving equations involving fractions in context and interpreting the solution</li> </ol>	6.NS.4		6.NS.1
C. <b>Ratio Concepts and Reasoning</b>	<ul style="list-style-type: none"> <li>Concepts of Rate and Ratio</li> </ul>	<ol style="list-style-type: none"> <li>Understanding ratio relationships between quantities</li> <li>Understanding equivalent ratios leading to the concept of unit rate</li> <li>Understanding equivalent ratios leading to the concept of percent</li> <li>Using unit rate to solve problems involving percent</li> <li>Using ratio reasoning to convert measurements and appropriately interpret units when performing operations</li> </ol>	6.RP.1, 6.RP.2		6.RP.3
D. <b>Expressions</b>	<ul style="list-style-type: none"> <li>Expressions and Equations</li> </ul>	<ol style="list-style-type: none"> <li>Identifying parts of an expression by using proper mathematical vocabulary</li> <li>Reading, writing, and evaluating numerical and variable expressions as models in contextual situations</li> <li>Applying order of operations to evaluate expressions</li> <li>Applying properties of operations to generate equivalent expressions</li> </ol>	6.EE.2, 6.EE.3, 6.EE.4, 6.EE.6	6.EE.1	
E. <b>Equations and Inequalities</b>	<ul style="list-style-type: none"> <li>Expressions and Equations</li> </ul>	<ol style="list-style-type: none"> <li>Reading, evaluating, and solving numerical and variable equations and inequalities as models in contextual situations</li> <li>Determining the truthfulness of solution(s)</li> <li>Creating graphs, tables, and equations from real world situations</li> <li>Analyzing relationships between related dependent and independent variables using graphs, tables, and equations</li> </ol>	6.EE.5, 6.EE.8		6.EE.7, 6.EE.9
F. <b>Area and Volume</b>	<ul style="list-style-type: none"> <li>Expressions and Equations</li> </ul>	<ol style="list-style-type: none"> <li>Composing and decomposing shapes to determine area</li> <li>Finding volumes of right rectangular prisms</li> <li>Using nets to find the surface area of three dimensional figures</li> <li>Solving real world problems for area, volume, and surface area</li> </ol>			6.G.1, 6.G.2, 6.G.4
G. <b>Rational Numbers</b>	<ul style="list-style-type: none"> <li>System of Rational Numbers</li> </ul>	<ol style="list-style-type: none"> <li>Understanding and ordering of rational numbers</li> <li>Graphing rational numbers on a number line and ordered pairs on a coordinate system</li> <li>Understanding absolute value and using it to determine distance between points on a coordinate system in real-world situations</li> </ol>	6.NS.5, 6.NS.6, 6.NS.7, 6.G.3	6.NS.4	6.NS.8
H. <b>Statistical Thinking</b>	<ul style="list-style-type: none"> <li>Statistical Thinking</li> </ul>	<ol style="list-style-type: none"> <li>Understanding and generating statistical questions based on the need for data</li> <li>Collecting, organizing, and displaying data</li> <li>Analyzing the distribution of data</li> <li>Summarizing data in relation to context</li> </ol>	6.SP.1, 6.SP.2, 6.SP.3	6.SP.4	6.SP.5