

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