## **Common Core Curriculum Map: 6th grade**

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UNIT 1: Factors, Multiples, Integers, and Rational Numbers	
Unit 1a: Integers	
Classifying Rational Numbers	6.NS.6
I can extend number line diagrams and coordinate axes to represent points on the line and plane with negative	
number coordinates.	
dentifying Integers and Their Opposites	6.NS.5
I can use positive and negative numbers to represent quantities in real world situations (above/below sea level, etc.)	
I can describe quantities of positive and negative numbers as having opposite directions or values.	
Comparing and Ordering Integers	6.NS.7b
l can write, interpret, and explain statements of order for rational numbers in real-world contexts.	
I can recognize the signs of both numbers in an ordered pair indicate which quadrant of the coordinate plane the	
ordered pair will be located.	
Absolute Value	6.NS.7c-
can find and position pairs of integers and other rational numbers on a coordinate plane.	d
can interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.	
can understand the absolute value of a rational number as its distance from 0 on the number line.	
can find and position integers and other rational numbers on a horizontal or vertical number line diagram.	
can distinguish comparisons of absolute value from statements about order.	
dentifying Opposites and Absolute Value of Rational Numbers	6.NS.6c
can find and position integers and other rational numbers on a horizontal or vertical number line	
diagram.	
Comparing and Ordering Rational Numbers	6.NS.7a
can demonstrate understanding of ordering and absolute value of rational numbers.	
can interpret inequality statements as relative position of two numbers on a number line.	
can recognize opposite signs of numbers as locations on opposite sides of 0 on the number line.	
Unit 1b: Factors and Multiples	
Exponents	
l can write and evaluate numerical expressions involving whole number exponents.	
Prime Factorization	
can write and evaluate numerical expressions involving whole number exponents.	
Greatest Common Factor	
I can identify the factors of two whole numbers less than or equal to 100 and determine the Greatest Common	
Factor.	
Least Common Multiple	
can identify the multiples of two whole numbers less than or equal to 12 and determine the Least Common Multiple.	
Distributive Property	
can apply the Distributive Property to rewrite addition problems by factoring out the Greatest Common Factor.	
3 Modules, 3 Quizzes, 1 Common Assessment for Unit 1	
Jnit 1C: Rational Numbers	
Unit 2 - Operations with Fractions and Decimals	
Unit 2a: Operations with Decimals	
Adding and Subtracting Decimals	6.NS.3
I can fluently add and subtract decimals using the standard algorithm.	
Multiplying Decimals	6.NS.3
can fluently multiply multi-digit decimals using the standard algorithm.	6.NS.2
Dividing Whole Numbers	
<b>Dividing Whole Numbers</b> I can divide multi-digit numbers using the standard algorithm.	6.NS.3
Dividing Whole Numbers I can divide multi-digit numbers using the standard algorithm. Dividing Decimals	6.NS.3
Dividing Whole Numbers I can divide multi-digit numbers using the standard algorithm. Dividing Decimals I can fluently divide multi-digit decimals using the standard algorithm.	6.NS.3
I can fluently multiply multi-digit decimals using the standard algorithm. Dividing Whole Numbers I can divide multi-digit numbers using the standard algorithm. Dividing Decimals I can fluently divide multi-digit decimals using the standard algorithm. Unit 2b: Operations with Fractions Applying GCF and LCM to Fraction Operations (Addition, Subtraction, and Multiplication)	6.NS.3

<i>I can identify the multiples of two whole numbers less than or equal to 12 and determine the Least Common</i> <b>Dividing Fractions</b>	6.NS.1
I can solve word problems involving division of fractions by fractions.	0
Dividing Mixed Numbers	6.NS.1
I can solve word problems involving division of fractions by fractions.	
Unit 2c: Operations with Fractions & Decimals – Real-World Problems	
Solving Multistep Problems with Fractions and Mixed Numbers	6.NS.1
I can solve word problems involving division of fractions by fractions.	
Applying Operations with Rational Numbers (Real-World) I can fluently add and subtract decimals using the standard algorithm.	6.NS.3
I can fluently multiply multi-digit decimals using the standard algorithm.	
I can fluently divide multi-digit decimals using the standard algorithm.	
2 Modules, 2 Quizzes, 1 Common Assessment for Unit 2	
Unit 3: Ratios, Rates, Proportions, and Percents	
Unit 3a: Ratios & Rates	
Ratios	6.RP.1
I can use ratio language to describe a relationship between two quantities.	
Rates	6.RP.2
I can convert between a ratio a:b and a unit rate a/b using rate language.	
Using Ratios and Rates to Solve Problems	6.RP.3
I can solve real-world and mathematical problems involving ratio and rates.	
Ratios, Rates, Tables, and Graphs	6.RP.3a
I can make a table of equivalent ratios using whole numbers	
I can find missing values in tables.	
I can use tables to compare ratios.	
I can plot pairs of values that represent equivalent ratios on the coordinate plane.	
Unit 3b: Proportions & Measurements	
Solving Problems with Proportions	6.RP.3
I can use ratio and rate reasoning to solve real-world and mathematical problems.	
Converting within Measurement Systems	6.RP.30
I can convert measurements units using ratio reasoning. (ex. yards to feet)	
Converting between Measurement Systems	6.RP.30
<i>I can convert measurements units using ratio reasoning. (ex: inches to centimeter, yard to meter)</i>	
Unit 3c: Percents	
Understanding Percents	6.RP.30
I can solve real-world problems involving finding the whole, given a part and a percent	
I can find a percent of a quantity as a rate per 100.	
Percents, Fractions, and Decimals	6.RP.3
I can use ratio and rate reasoning to solve real-world and mathematical problems.	
Solving Percent Problems	6.RP.30
I can find a percent of a quantity as a rate per 100.	
3 Modules, 3 Quizzes, 1 Common Assessment for Unit 3	
Unit 4: Writing and Solving Expressions and Equations	
Unit 4a: Generating Equivalent Algebraic Expressions	
Modeling and Writing Expressions	6.EE.2-
I can write, read, and evaluate expressions in which letters stand for numbers.	2a & 6

I can translate written phrases into algebraic expressions.	
I can write and solve a real-world or mathematical problem using variables and expressions.	0.55.01
Evaluating Expressions	6.EE.2b-
I can evaluate algebraic expressions including those that arise from real-world problems.	с
I can identify parts of an expression using mathematical terms (sum, term, product, factor, quotient,	
coefficient).	6.EE.3-4
Generating Equivalent Expressions I can apply the properties of operations to generate equivalent expressions.	0.EE.3-4
I can identify when two expressions are equivalent.	
Unit 4b: Equations & Relationships	
Order of Operations	6.EE.1
I can write and evaluate numerical expressions involving whole number exponents.	6.EE.2c
I can solve order of operation problems that contain exponents.	0.11.20
Writing Equations to Represent Situations	6.EE.7
I can write and solve equations for real-world or mathematical problems.	0.11.7
Addition and Subtraction Equations	6.EE.7
I can write and solve equations for real-world or mathematical problems.	0.22.7
Multiplication and Division Equations	6.EE.5
I can use substitution to determine whether a given number in a specified set makes an equation true.	0.22.05
I can use substitution to determine whether a given number in a specified set makes an inequality true.	
Writing Inequalities	6.EE.8
I can write inequalities for real-world or mathematical problems that represent constraints or conditions.	
2 Modules, 2 Quizzes, 1 Common Assessment for Unit 4	
Unit 5 - Relationships in Two Variables	
Graphing on the Coordinate Plane	6.NS.6c
I can find and position pairs of integers and rational numbers on a coordinate plane.	
Independent and Dependent Variables in Tables and Graphs	6.EE.9
I can use variables to represent two quantities in a real-world problem that change in relationship to one	
another.	
Writing Equations from Tables	6.EE.9
I can write an equation to express one quantity (dependent) in terms of the other quantity (independent).	
Representing Algebraic Relationships in Tables and Graphs	6.EE.9
I can analyze the relationship between the dependent variable and independent variable using tables,	
graphs, and equations.	
2 Modules, 2 Quizzes, 1 Common Assessment for Unit 5	
Unit 6 - Area, Surface Area, and Volume	
Unit 6a: Area and Polygons	
Area of Quadrilaterals	6.G.1
I can apply the techniques of composing and/or decomposing to find the area of quadrilaterals to solve	
mathematical and real-world problems.	<u> </u>
Area of Triangles	6.G.1
I can apply the techniques of composing and/or decomposing to find the area of right triangles and other	
triangles to solve mathematical and real world problems.	
	6.G.1
Solving Area Equations	
Solving Area Equations Area of Polygons	6.G.1
Area of Polygons I can apply the techniques of composing and/or decomposing to find the area of polygons to solve	
Area of Polygons	

Distance in the Coordinate Plane	6.NS.8
I can calculate the distances between two points with the same first coordinate or the same second	
coordinate using absolute value.	
Polygons in the Coordinate Plane	6.G.3
I can use coordinates (with the same x-coordinate or the same y-coordinate) to draw polygons in the	
coordinate plane.	
I can use coordinates (with the same x-coordinate or the same y-coordinate) to find the length of a side of	
a polygon in the context of real-world and mathematical problems.	
Unit 6c: Surface Area and Volume of Solids	
Nets and Surface Area	6.G.4
I can use nets to find the surface area of three dimensional figures.	
I can construct a net of a three-dimensional figure using rectangles and triangles.	
Volume of Rectangular Prisms	6.G.2
I can model the volume of a right rectangular prism with fractional edge lengths by packing it with unit	
cubes of the appropriate unit fraction edge lengths.	
Solving Volume Equations	6.G.2
I can apply volume formulas for right rectangular prisms to solve real-world and mathematical problems	
involving rectangular prisms with fractional edge lengths.	
3 Modules, 3 Quizzes, 1 Common Assessment for Unit 6	1
Unit 7: Displaying, Analyzing , Summarizing Data	
Unit 7a: Displaying & Analyzing Data	
Statistical Questioning	6.SP.1
I can identify a statistical question and variability in related data.	
Statistical Variability	6.SP.3
I can recognize there are measures of central tendency for a data set that summarize the data set with a	
single number.	
I can recognize there are measures of variances for a data set that describes the data set with a single	
number.	
Unit 7b: Summarizing Data	
Describing Distributions of Data	6.SP.2
I can describe a set of data by its center, spread and overall shape.	
Summarize and Describe Distributions (Measures of Center & Mean Absolute Deviation)	6.SP.3 8
I can summarize numerical data by recording the number of observations.	5c-d
I can describe the data being collected, including how it was measured and its units of measurement.	
I can calculate quantitative measures of variance, e.g., range, interquartile range, mean, absolute	
deviation.	
I can describe any overall pattern and any striking deviations (outliers) from a numerical data set.	
I can calculate quantitative measures of center, e.g., mean, median, mode.	
I can choose the appropriate measure of center and variability to represent the data and justify why this	
measure is appropriate in terms of the context.	
Box Plots	6.SP.4
I can display numerical data using box plots.	
Dot Plots and Data Distribution	6.SP.4
I can display numerical data usina dot plots.	1
I can display numerical data using dot plots. Histograms	6 SP 4
I can display numerical data using dot plots. <b>Histograms</b> I can display numerical data using histograms.	6.SP.4