Math 6 Course Overview

Unit	Major Concepts	Skills	Summative Assessments
Number Sense	Following Math Rules: *Order of Operations *Properties of Real Numbers	Evaluate according to the order of operations Utilize divisibility rules Find prime factorization of a number/interpret results Evaluate algebraic expression according to order of operation Substitute in for expressions	Written Assessments Number Project
Integers	To compute arithmetic operations with integers, rules based on the signs of the numbers must be followed Absolute value represents the distance to zero on the number line.	Order, add, subtract, multiply and divide positive and negative whole numbers. Identify the absolute value of a number	Flow Chart: Operations on Integers with illustrative examples Integer War Card Game Written Assessments
Fractions, Decimals and Percentages	Fractions represent a comparison of parts to whole. How do we add, subtract, multiply, divide, compare, and, order fractions Percentages allow us to quickly convey information about parts relative to a whole. Understand the importance of place value when representing decimals (relating to a base 10 number system)	Represent, compare, add, subtract, multiply and divide fractions. Find the percentage of a number Convert between fractions, decimals and percentages Compare, add, subtract, multiply and divide decimals	Fractions Presentations: Describing operations on fractions in a presentation quality format (google slides, google site, poster, game, etc) Written Assessments
Ratio, Proportion and Percent	A ratio describes a relationship between two numbers and is based in multiplication (not addition and subtraction) Proportions describe equality between ratios	Solve proportions Identify and compute equivalent ratios	Shared Rent Assignment Written Assessments
Solving Linear Equations	Equations represent equivalent expressions, and to solve them we need to perform identical inverse operations on both expressions.	Identify and perform inverse	Video: Explain how to solve and formulate an equation and how to model it with algebra tiles

		operations Solve 2-step equations	

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		Formulate an equation based on a word problem/real-world scenario	
Geometry/ Measurement	Geometric figures are defined based on the inclusion of specific properties. Deductive reasoning can be used to find missing measurements.	Calculate area and perimeter Convert units Identify and calculate complementary and supplementary angles Break down a complex problem into smaller parts.	Geometric Art Written Assessment
Probability	Probability means the likelihood of something happening Probability is the ratio of possible successful outcomes to total possible outcomes.	Apply the fundamental counting principle to determine number of possible outcomes to an event Compute the theoretical probability Determine the empirical probability based on data	Free Throw Probability Card Games Written Assessments
Statistics	Statistics is representing and interpreting data in a graphical format.	Collect and organize data Represent data in an appropriate graph with appropriate unit labels Read and interpret graphs	Using real-life graphical representations of data with blank spots, determine the meaning and describe its implications on the world you live in.