

Math 6 Course Overview

Unit	Major Concepts	Skills	Summative Assessments
Number Sense	Following Math Rules: *Order of Operations *Properties of Real Numbers	Evaluate expressions according to the order of operations Utilize divisibility rules Find prime factorization of a number/interpret results Evaluate algebraic expressions according to the F.S.C. method 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 using Integers with illustrative examples Written Assessments
Fractions, Decimals and Percentages	Fractions represent a comparison of parts to the 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	Fraction Presentations: Describing operations on fractions in a presentation-quality format (Google Slides, Google Sites, 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 Kim Goes Fishing
Solving Linear Equations	Equations represent equivalent expressions, and to solve them we need to perform identical inverse operations on both expressions	Formulate an equation based on a word problem/real-world scenario	Written Assessments

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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	Card Games Written Assessments Probability Activity
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	Use real-life graphical representations of data, determine their meaning, and describe their implications for the world you live in.