

Math 6 Course Overview

Unit	Major Concepts	Skills	Summative Assessments
Number Sense	<p>Following Math Rules: *Order of Operations *Properties of Real Numbers</p>	<p>Evaluate according to the order of operations</p> <p>Utilize divisibility rules</p> <p>Find prime factorization of a number/interpret results</p> <p>Evaluate algebraic expression according to order of operation</p> <p>Substitute in for expressions</p>	<p>Mini activity stations: LCM, GCF partner switch Properties matching box Factors and Divisibility Factor Captor Number Project</p>
Integers	<p>To compute arithmetic operations with integers, rules based on the signs of the numbers must be followed</p> <p>Absolute value represents the distance to zero on the number line.</p>	<p>Order, add, subtract, multiply and divide positive and negative whole numbers.</p> <p>Identify the absolute value of a number</p>	<p>Flow Chart: Operations on Integers with illustrative examples</p>
Fractions	<p>Fractions represent a comparison of parts to whole.</p> <p>How do we add, subtract, multiply, divide, compare, and, order fractions.</p>	<p>Represent, compare, add, subtract, multiply and divide fractions.</p>	<p>Fractions posters: Describing operations on fractions in a presentation quality format.</p>
Fractions, Decimals and Percentages	<p>Percentages allow us to quickly convey information about parts relative to a whole.</p> <p>Understand the importance of place value when representing decimals (relating to a base 10 number system)</p>	<p>Find the percentage of a number</p> <p>Convert between fractions, decimals and percentages</p> <p>Compare, add, subtract, multiply and divide decimals</p>	<p>Hexagonal equivalent expression matching puzzles</p>
Ratio, Proportion and Percent	<p>A ratio describes a relationship between two numbers and is based in multiplication (not addition and subtraction)</p> <p>Proportions describe equality between ratios</p>	<p>Solve proportions</p> <p>Identify and compute equivalent ratios</p>	<p>Wildlife biologist for a day - determine the population of a species based on a known tagged sample.</p>
Solving Linear Equations	<p>Equations represent equivalent expressions, and to solve them we need to perform identical inverse operations on both expressions.</p>	<p>Identify and perform inverse operations</p> <p>Solve 2-step equations</p>	<p>Screencast: Explain how to solve and formulate an equation and how to model it with algebra tiles</p>

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		Formulate an equation based on a word problem/real-world scenario	
Geometry/ Measurement	<p>Geometric figures are defined based on the inclusion of specific properties.</p> <p>Deductive reasoning can be used to find missing measurements.</p>	<p>Calculate area and perimeter</p> <p>Convert units</p> <p>Identify and calculate complementary and supplementary angles</p> <p>Break down a complex problem into smaller parts.</p>	Creating paper furniture from directions which require fluency with geometric properties
Probability	<p>Probability means the likelihood of something happening</p> <p>Probability is the ratio of possible successful outcomes to total possible outcomes.</p>	<p>Apply fundamental counting principle to determine number of possible outcomes to an event</p> <p>Compute the theoretical probability</p> <p>Determine the empirical probability based on data</p>	Create and present a slideshow unveiling the mystery behind a counter-intuitive question.
Statistics	Statistics is representing and interpreting data in a graphical format.	<p>Collect and organize data</p> <p>Represent data in an appropriate graph with appropriate unit labels</p> <p>Read and interpret graphs</p>	Using real life graphical representations of data with blank spots, determine the meaning and describe its implications on the world you live in.