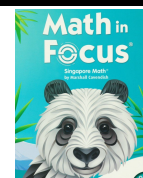


Math in Focus-5th Grade



Standards by Quarter

Welcome to a wonderful year of math exploration! This grid provides a clear look at the key concepts and standards your child will be learning each quarter in 5th grade. We encourage you to use these topics as a starting point for onversations and real world experiences at home.

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Problem Solving	<ul style="list-style-type: none"> Look for and make use of structure Attend to precision Use appropriate tools strategically Make sense of problems and persevere in solving them Model with mathematics 			
Mathematical Communication	<ul style="list-style-type: none"> Construct viable arguments and critique the reasoning of others Reason abstractly and quantitatively Look for and express regularity in repeated reasoning 			
Numbers and Operations	<p>Concepts: Whole Numbers & the Four Operations, Fractions & Mixed Numbers</p> <p>Standards: Demonstrate an understanding that in a multi-digit number, a digit in one place represents 1/10 of what it represents in the place to its left.</p> <p>Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.</p> <p>Multiply multi-digit whole numbers (not to exceed three-digit by three-digit).</p> <p>Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.</p> <p>Use equivalent fractions as a strategy to add and subtract fractions.</p> <p>Add and subtract fractions (including mixed numbers) with unlike denominators. (May include multiple methods and representations.)</p> <p>Solve word problems involving division of whole numbers leading to answers in the form of fractions (including mixed numbers).</p>	<p>Concepts: Multiplying & Dividing Fractions & Mixed Numbers, Decimals</p> <p>Standards: Apply and extend previous understandings of multiplication and division to multiply and divide fractions.</p> <p>Multiply a fraction (including mixed numbers) by a fraction.</p> <p>Demonstrate an understanding of multiplication as scaling (resizing).</p> <p>Read and write decimals to thousandths using base-ten numerals, word form, and expanded form.</p> <p>Compare two decimals to thousandths based on meanings of the digits in each place using $>$, $=$, and $<$ symbols.</p> <p>Round decimals to any place (limit rounding to ones, tenths, hundredths, or thousandths). place).</p>	<p>Concepts: Four Operations of Decimals</p> <p>Standards: Add, subtract, multiply, and divide decimals to hundredths (no divisors with decimals).</p>	<p>Concepts: Ratio and Percents</p> <p>Standards: Apply place value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals.</p> <p>Understanding ratio concepts and use of ratio reasoning to solve problems. (6th grade standard)</p> <p>Understanding ratio concepts and use of ratio reasoning</p>
Operations and Algebraic Thinking	<p>Concepts: Whole Numbers and the Four Operations</p> <p>Standards: Use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions and evaluate expressions containing these symbols.</p>		<p>Concepts: Line Plots and the Coordinate Plane</p> <p>Standards: Apply concepts of volume to solve problems and relate volume to multiplication and to addition.</p>	
Geometry	N/A	N/A	<p>Concepts: Line Plots and the Coordinate Plane</p> <p>Standards: Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems.</p>	<p>Concepts: Polygons</p> <p>Standards: Classify two-dimensional figures into categories based on an understanding of their properties.</p> <p>Classify two-dimensional figures in a hierarchy based on properties.</p>
Measurement & Data	N/A	N/A	<p>Concepts: Volume and Line Plots and the Coordinate Plane</p> <p>Standards: Solve problems using conversions within a given measurement system.</p> <p>Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems. Formulas will be provided.</p> <p>Find volumes of solid figures composed of two non-overlapping right rectangular prisms.</p> <p>Solve problems involving computation of fractions using information provided in a line plot.</p>	