



**General Information**

Course **5th Grade Math**

Grade **5th**

**5th**

**Stakeholders** School staff members, students, families, and community members

**Symbols** ▲ = Preparing | ● = Learning | ★ = Extending

**General Unit Information**

Unit Name	Place Value Concepts	Numerical Expressions	Add & Subtract Decimals	Multiply Whole Numbers	Divide Whole Numbers
<b>Pacing</b>	13 Days	11 Days	12 Days	10 Days	14 Days
<b>Standards</b>	● 5.N.1.1 Represent decimal fractions using a variety of models (e.g., 10 by 10 grids, base-ten blocks, meter stick) and show the rational number relationships among fractions, decimals and whole numbers	● 5.A.2.1 Generate equivalent numerical expressions and solve problems using number sense involving whole numbers by applying the commutative property, associative property, distributive property, and order of operations (excluding exponents).	● 5.N.3.1 Estimate sums and differences of fractions with like and unlike denominators, mixed numbers, and decimals to assess the reasonableness of the results.	● 5.N.2.4 Construct models to solve multi-digit whole number problems requiring addition, subtraction, multiplication, and division using various representations, including the inverse relationships between operations, the use of technology, and the context of the problem to assess the reasonableness	● 5.N.2.1 Estimate solutions to division problems to assess the reasonableness of results.
	● 5.N.1.2 Read, write, and represent decimals using place value to describe decimal numbers including fractional numbers as small as thousandths and whole numbers up to seven digits.	● 5.A.2.2 Determine whether an equation or inequality involving a variable is true or false for a given value of the variable	● 5.N.3.2 Illustrate addition and subtraction of fractions with like and unlike denominators, mixed numbers, and decimals using a variety of mathematical models (e.g., fraction strips, area models, number lines, fraction rods).		● 5.N.2.2 Divide multi-digit numbers, by one- and two-digit divisors, based on knowledge of place value, including but not limited to standard algorithms.
	● 5.N.1.3 Compare and order decimals and fractions, including mixed numbers and fractions less than one, and locate on a number line	● 5.A.2.3 Evaluate expressions involving variables when values for the variables are given.	● 5.N.3.4 Apply mental math and knowledge of place value (no written computations) to find 0.1 more or 0.1 less than a number, 0.01 more or 0.01 less than a number, and 0.001 more or 0.001 less than a number.		● 5.N.2.3 Recognize that remainders can be represented in a variety of ways, including a whole number, fraction, or decimal. Determine the most meaningful form of a remainder based on the context of the problem.
	● 5.N.1.4 Recognize and generate equivalent terminating decimals, fractions, mixed numbers, and fractions in various models.				● 5.N.2.4 Construct models to solve multi-digit whole number problems requiring addition, subtraction, multiplication, and division using various representations, including the inverse relationships between operations, the use of technology, and the context of the problem to assess the reasonableness
	▲ 5.N.3.1 Estimate sums and differences of fractions with like and unlike denominators, mixed numbers, and decimals to assess the reasonableness of the results				
	<b>Compare Fractions</b>	<b>Add &amp; Subtract Fractions w/Like Denominators</b>	<b>Add &amp; Subtract Fractions w/Unlike Denominators</b>	<b>Multiply Fractions</b>	<b>Divide Fractions</b>
	9 Days	11 Days	10 Days	13 Days	10 Days

● 5.N.1.3 Compare and order decimals and fractions, including mixed numbers and fractions less than one, and locate on a number line.	● 5.N.3.1 Estimate sums and differences of fractions with like and unlike denominators, mixed numbers, and decimals to assess the reasonableness of the results.	● 5.N.3.2 Illustrate addition and subtraction of fractions with like and unlike denominators, mixed numbers, and decimals using a variety of mathematical models (e.g., fraction strips, area models, number lines, fraction rods).	★ 5.N.3.3 Add and subtract fractions with like and unlike denominators, mixed numbers, and decimals, involving money, measurement, geometry, and data. Use various models and efficient strategies, including but not limited to standard algorithms.	● 5.N.1.4 Recognize and generate equivalent terminating decimals, fractions, mixed numbers, and fractions in various models.
	● 5.N.3.2 Illustrate addition and subtraction of fractions with like and unlike denominators, mixed numbers, and decimals using a variety of mathematical models (e.g., fraction strips, area models, number lines, fraction rods).	● 5.N.3.3 Add and subtract fractions with like and unlike denominators, mixed numbers, and decimals, involving money, measurement, geometry, and data. Use various models and efficient strategies, including but not limited to standard algorithms.		● 5.N.2.3 Recognize that remainders can be represented in a variety of ways, including a whole number, fraction, or decimal. Determine the most meaningful form of a remainder based on the context of the problem.
	● 5.N.3.3 Add and subtract fractions with like and unlike denominators, mixed numbers, and decimals, involving money, measurement, geometry, and data. Use various models and efficient strategies, including but not limited to standard algorithms.			★ 5.N.3.3 Add and subtract fractions with like and unlike denominators, mixed numbers, and decimals, involving money, measurement, geometry, and data. Use various models and efficient strategies, including but not limited to standard algorithms.
<b>Convert and Display Units of Measure</b>	<b>Patterns in the Coordinate Plane and Data</b>	<b>Understand Volume</b>	<b>Classify Shapes</b>	
<b>13 Days</b>	<b>15 Days</b>	<b>9 Days</b>	<b>12 Days</b>	
● 5.GM.3.2 Measure the length of an object to the nearest whole centimeter or up to 1/16 inch using an appropriate instrument	● 5.A.1.1 Use tables and rules with up to two operations to describe patterns of change and make predictions and generalizations about various mathematical situations.	● 5.GM.2.1 Determine the volume of rectangular prisms by the number of unit cubes ( $n$ ) used to construct the shape and by the product of the dimensions of the prism $a \cdot b \cdot c = n$ . Understand rectangular prisms of different dimensions ( $p$ , $q$ , and $r$ ) can have the same volume if $a \cdot b \cdot c = p \cdot q \cdot r = n$ .	● 5.GM.1.1 Describe, identify, classify, and construct triangles (equilateral, right, scalene, isosceles) by their attributes using various mathematical models.	
● ★ 5.GM.3.3 Apply the relationship between inches, feet, and yards to measure, convert, and compare objects to solve problems	● 5.A.1.2 Use a rule or table to represent ordered pairs of whole numbers and graph these ordered pairs on a coordinate plane, identifying the origin and axes in relation to the coordinates.		● 5.GM.1.2 Describe, identify, and classify three-dimensional figures (cubes, rectangular prisms, and pyramids) and their attributes (number of edges, faces, vertices, shapes of faces), given various mathematical models.	
● ★ 5.GM.3.4 Apply the relationship between millimeters, centimeters, and meters to measure, convert, and compare objects to solve problems.	● 5.D.1.1 Find the measures of central tendency (i.e., mean, median, mode) and range of a set of data. Understand that the mean is a "leveling out" or central balance point of the data.		● 5.GM.1.3 Recognize and draw a net for a three-dimensional figure (cube, rectangular prism, pyramid).	
● ★ 5.GM.3.5 Estimate lengths and geometric measurements to the nearest whole unit, using benchmarks in customary and metric measurement systems	● 5.D.1.2 Create and analyze line and double-bar graphs with increments of whole numbers, fractions, and decimals.		● 5.GM.2.2 Estimate the perimeter of polygons and create arguments for reasonable perimeter values of shapes that may include curves	

				<ul style="list-style-type: none"><li>● 5.GM.3.1 Measure and compare angles according to size using various tools</li></ul>	
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