

Mathematics-4th grade				
Essential Skill Component	Standard	Sub Component	Mathematical Practices	Quarterly Focus
<b>Mathematical Reasoning</b>				
Applies strategies to solve problems	4.OA.2, 4.OA.3, 4.NF.3, 4.NF.4, 4.MD.2		4.MP.1, 4.MP.2, 4.MP.3, 4.MP.4, 4.MP.5, 4.MP.6, 4.MP.7, 4.MP.8	<b>Integrate throughout all 4 quarters</b> <b>Problem solving</b> with place value, estimation, rounding, addition, subtraction, metric units
Communicates mathematical thinking, using math vocabulary	Embedded throughout 4th grade Common Core Standards for Mathematics and Language Arts		4.MP.3, 4.MP.6	<b>Integrate throughout all 4 quarters</b> <b>Vocabulary:</b> place value, estimation, sum, difference, equation, pattern, rule, unknown quantity, digit(s), standard form, word form, expanded form, compare, conversion, operations <b>Metric Units:</b> Length: mm, cm, m, km Volume: mL, L Mass: mg, g, kg
<b>Operations and Algebraic Thinking</b>				
Uses four operations with whole numbers to solve problems	4.OA.2, 4.OA.3, 4.OA.5		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	<b>Assess addition and subtraction</b> <b>Solve Problems:</b> using drawings, equations, estimation, rounding <b>Patterns:</b> Generate a number or shape pattern that follows a given rule
Multiplies whole numbers	4.OA.1, 4.NBT.5		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	<b>Assess basic facts only</b> Interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5 Build to multiplying by 10 relating back to place value and metric system
Divides whole numbers	4.NBT.6		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	Not assessed until 2nd quarter
Identifies factors and multiples in numbers 1-100	4.OA.4		4.MP.2, 4.MP.7, 4.MP.8	Not assessed until 2nd quarter
Solves multi-step word problems	4.OA.2, 4.OA.3		4.MP.1, 4.MP.2, 4.MP.3, 4.MP.4, 4.MP.5, 4.MP.6, 4.MP.7, 4.MP.8	<b>Assess addition and subtraction</b> <b>Solve Problems:</b> using drawings, equations, estimation, rounding
<b>Number Sense and Operations in Base Ten</b>				
Demonstrates an understanding of place value to one million	4.NBT.1, 4.NBT.2, 4.NBT.3		4.MP.3, 4.MP.5, 4.MP.6	Assess the following: Recognize that a digit in one place represents 10 times what it represents in the place to its right Read and write numbers in standard form, word form, and expanded form Compare numbers using $>$ , $<$ , $=$ Round numbers using place value
Performs four operations with multi-digit numbers	4.NBT.4, 4.NBT.5, 4.NBT.6		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	<b>Assess addition and subtraction</b> Fluently add and subtract multi-digit whole numbers using the standard algorithm
<b>Number Sense and Operations - Fractions</b>				
Demonstrates an understanding of fraction equivalence	4.NF.1		4.MP.2, 4.MP.3, 4.MP.7, 4.MP.8	Not assessed until 3rd quarter

Compares and orders fractions	4.NF.2		4.MP.1, 4.MP.2, 4.MP.7, 4.MP.8	Not assessed until 3rd quarter
Adds and subtracts fractions with like denominators	4.NF.3	4.NF.3a, 4.NF.3b, 4.NF.3d	4.MP.1,4.MP.2, 4.M.P.4,4.MP.7,4.M.P.8	Not assessed until 3rd quarter
Adds and subtracts mixed numbers with like denominators	4.NF.3	4.NF.3c, 4.NF.3d	4.MP.1,4.MP.2, 4.M.P.4,4.MP.7,4.M.P.8	Not assessed until 3rd quarter
Solves word problems involving multiplication of a fraction by a whole number	4.NF.4	4.NF.4a, 4.NF.4b, 4.NF.4c	4.MP.1,4.MP.2, 4.MP.3, 4.M.P.4,4.MP.5,4.MP.6, 4.MP.7,4.M.P.8	Not assessed until 3rd quarter
Demonstrates an understanding of the relationship between fractions and decimals	4.NF.5, 4.NF.6, 4.NF.7		4.MP.1,4.MP.2, 4.MP.3, 4.M.P.4,4.MP.5,4.MP.6, 4.MP.7,4.M.P.8	Not assessed until 3rd quarter
<b>Measurement and Data</b>				
Uses the four operations to solve problems involving measurement (such as distance, time, volume, mass, money, simple fractions, decimals, area and perimeter)	4.MD.2, 4.MD.3		4.MP.1,4.MP.2, 4.M.P.4,4.MP.7,4.M.P.8	Area and perimeter assessed 2nd quarter, All other components assessed 4th quarter
Converts units of measure within one system (including km, m, cm; kg, g, lb, oz; l, ml, hr, min, sec)	4.MD.1		4.MP.1,4.MP.2, 4.M.P.4,4.MP.7,4.M.P.8	<b>Assess 1st quarter (metric units)</b> Using the metric system, express measurements in a larger unit in terms of a smaller unit. For example, know that one meter is ten times one centimeter. Connect this concept to place value.
Represents and interprets data, using a line plot	4.MD.4		4.MP.2, 4.MP.4	Not assessed until 4th quarter
Measures, sketches, and adds angles in degrees, using a protractor	4.MD.5, 4.MD.6, 4.MD.7	4.MD.5a, 4.MD.5b	4.MP.2, 4.MP.4, 4.MP.5, 4.MP.6	Not assessed until 4th quarter
<b>Geometry</b>				
Draws points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines	4.G.1		4.MP.2, 4.MP.4, 4.MP.5, 4.MP.6	Not assessed until 4th quarter
Classifies shapes based on lines and angles (parallel, perpendicular, and symmetrical)	4.G.2, 4.G.3, 4.MD.5		4.MP1, 4.MP.2, 4.MP3, 4.MP.5, 4.MP.6,	Not assessed until 4th quarter