

Mathematics-4th grade	2nd quarter			
Essential Skill Component	Standard	Sub Component	Mathematical Practices	Quarterly Focus
Mathematical Reasoning				
Applies strategies to solve problems	4.MP.1, 4.MP.2, 4.MP.4, 4.MP.5, 4.MP.7, 4.MP.8, 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	Integrate throughout all 4 quarters Problem solving with multiplication, division, factors, multiples, prime, composite, area, perimeter, customary 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	Integrate throughout all 4 quarters Vocabulary: product, factor, multiple, prime, composite, quotient, dividend, divisor, difference, remainder, decompose, operation, equation, area, perimeter, array, area model Customary Units: Length: inch, foot, yard, mile Volume: ounce, cup, pints, quart, gallon Mass: ounce, pound, ton Time: second, minute, hour
Operations and Algebraic Thinking				
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.M.P.4, 4.M.P.7, 4.M.P.8	Assess multiplication and division Solve Problems: using drawings, equations, estimation, rounding. Patterns: 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.M.P.4, 4.M.P.7, 4.M.P.8	4 digit X 1 digit, 2 digit X 2 digit using a variety of strategies and models, Interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as a 7 and 7 times as many as 5. Illustrate and explain calculations using equations, rectangular arrays, and/or areas models Relate customary units of measurement back to multiplication
Divides whole numbers	4.NBT.6		4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8	Divide up to 4 digit dividends by 1 digit divisors, may include remainders. Illustrate and explain calculations using equations, rectangular arrays, and/or area models
Identifies factors and multiples in numbers 1-100	4.OA.4		4.MP.2, 4.MP.7, 4.MP.8	Factors, multiples, prime or composite numbers, range 1-100
Solves multi-step word problems	4.OA.3		4.MP.1, 4.MP.2, 4.MP.3, 4.M.P.4, 4.M.P.5, 4.M.P.6, 4.M.P.7, 4.M.P.8	Assess multiplication and division Solve Problems: using drawings, equations, estimation, and roundin
Number Sense and Operations in Base Ten				
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	Review as needed Assessed in 1st quarter
Performs four operations with multi-digit numbers	4.NBT.4, 4.NBT.5, 4.NBT.6		4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8	Assess multiplication and division Develop an understanding of multiplication using 4 digit X 1 digit and 2 digit X 2 digit problems using a variety of strategies and models. Develop an understanding of the relationship between multiplication and division Develop an understanding of division using 4 digit dividends by 1 digit divisors, which may include remainders
Number Sense and Operations-Fractions				
Demonstrates an understanding of fractions 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.M.P.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.M.P.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.M.P.5, 4.M.P.6, 4.M.P.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.M.P.5, 4.M.P.6, 4.M.P.7, 4.M.P.8	Not assessed until 3rd quarter
Measurement and Data				
Uses the four operations to solve problems involving measurement (such as distance, time, volume, mass, money, and simple fractions, decimals, area and perimeter)	4.MD.2, 4.MD.3		4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8	Area and perimeter assessed 2nd quarter All other components assessed 4th quarter Apply the area and perimeter formulas for rectangles in real world and mathematical problem
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.M.P.7, 4.M.P.8	Assess 2nd- quarter (Customary Units) Express measurements in a larger unit in terms of a smaller unit. Customary Units: connects to multiplication of whole numbers
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
Geometry				
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.MP.1, 4.MP.2, 4.MP.3, 4.MP.5, 4.MP.6,	Not assessed until 4th quarter