

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> involving comparing fractions, adding/subtracting fractions, multiplying fractions by a whole number, decimals, relationship between fractions and decimals
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> denominator, numerator, common denominator, equivalent, mixed number, decompose, fraction, decimal, decimal point, tenths, hundredths, mixed number, unit fraction, compare
<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	Review and assess as needed <b>Solve Problems:</b> using drawings, equations, estimation, rounding
Multiplies whole numbers	4.OA.1, 4.NBT.5		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	Review as needed
Divides whole numbers	4.NBT.6		4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	Review as needed
Identifies factors and multiples in numbers 1-100	4.OA.4		4.MP.2, 4.MP.7, 4.MP.8	Assessed in 2nd quarter Review as needed
Solves multi-step word problems	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	Review as needed <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	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.MP.4, 4.MP.7, 4.MP.8	Review as needed
<b>Number Sense and Operations-Fractions</b>				
Demonstrates an understanding of fractions equivalence	4.NF.1		4.MP.2, 4.MP.3, 4.MP.7, 4.MP.8	Explain equivalent fractions.
Compares and orders fractions	4.NF.2		4.MP.1, 4.MP.2, 4.MP.7, 4.MP.8	Compare two fractions by creating common denominators Compare fractions to a benchmark fraction, such as $\frac{1}{2}$ Record results and justify conclusions of comparisons using $<$ , $=$ , $>$ symbols
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.MP.4, 4.MP.7, 4.MP.8	Joining and separating parts referring to the same whole Decompose a fraction Solve word problems
Adds and subtracts mixed numbers with like denominators	4.NF.3	4.NF.3c, 4.NF.3d	4.MP.1, 4.MP.2, 4.MP.4, 4.MP.7, 4.MP.8	Solve word problems
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.MP.4, 4.MP.5, 4.MP.6, 4.MP.7, 4.MP.8	4.NF.4a Ex) $\frac{5}{4} = 5 \times \frac{1}{4}$ 4.NF.4b Ex) $3 \times \frac{2}{5} = \frac{6}{5} = 6 \times \frac{1}{5}$ Solve word problems

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.P4,4.MP.5,4.MP.6, 4.MP.7,4.M.P.8	4.NF.5 Ex) $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$ 4.NF.6 Change a decimal to a fraction and a fraction to a decimal Ex) $0.62 = \frac{62}{100}$ 4.NF.7 Compare two decimals to the tenths and hundredths
<b>Measurement and Data</b>				
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.P4,4.MP.7,4.M.P.8	Area and perimeter assessed in 2nd quarter All other components assessed in 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.P4,4.MP.7,4.M.P.8	Metric Measurement assessed in 1st quarter Customary Measurement assessed in 2nd quarter
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