

Quarter 1		Fourth Grade Mathematics	
Strand and Domain		Grade Level Expectation	
Number and Operations: Add and Subtract Whole Numbers		N.FL.04.08 Add and subtract whole numbers fluently.	
Number and Operations: Understand and Use Number Notation and Place Value		N.ME.04.02 Compose and decompose numbers using place value to 1,000,000's, e.g., 25,068 is 2 ten thousands, 5 thousands, 0 hundreds, 6 tens, and 8 ones.	
		N.ME.04.01 Read and write numbers to 1,000,000; relate them to the quantities they represent; compare and order.	
		N.ME.04.03 Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.	
Number and Operations: Estimate		N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.	
		N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	
Measurement: Convert Measurement Units		M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).	
Quarter 2		Fourth Grade Mathematics	
Measurement: Measure using Common Tools and Appropriate Units		M.UN.04.01 Measure using common tools and select appropriate units of measure.	
		M.UN.04.03 Measure and compare integer temperatures in degrees.	
Measurement: Understanding Right Angles		M.TE.04.10 Identify right angles and compare angles to right angles.	
Geometry: Understanding perpendicular, parallel and intersecting lines		G.GS.04.01 Identify and draw perpendicular, parallel, and intersecting lines using a ruler and a tool or object with a square (90°) corner.	
Geometry: Identify basic geometric shapes and their components, and solve problems		G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral, and right triangles, and use their properties to solve problems.	
Geometry: Recognize Symmetry and Transformations		G.TR.04.04 Recognize plane figures that have line symmetry.	
		G.TR.04.05 Recognize rigid motion transformations (flips, slides, turns) of a two-dimensional object.	
Number and Operations: Use Factors and Multiples		N.ME.04.04 Find all factors of any whole number through 50, list factor pairs, and determine if a one-digit number is a factor of a given whole number.	
		N.ME.04.05 List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole number.	
		N.MR.04.06 Know that some numbers including 2, 3, 5, 7, and 11 have exactly two factors (1 and the number itself) and are called prime numbers.	
Number and Operations: Estimate		N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.	
Measurement: Measure Using Common Tools and Appropriate Units		M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.	
Measurement: Use Perimeter and Area Formulas		M.TE.04.06 Know and understand the formulas for perimeter and area of a square and a rectangle; calculate the perimeters and areas of these shapes and combinations of these shapes using the formulas.	
Geometry: Identify Basic Geometric Shapes and their Components, and Solve Problems		G.SR.04.03 Identify and count the faces, edges, and vertices of basic three-dimensional geometric solids including cubes, rectangular prisms, and pyramids; describe the shape of their faces.	

Quarter 3	Fourth Grade Mathematics
Strand and Domain	Grade Level Expectation
Number and Operations: Multiply and Divide Whole Numbers	N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5 using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$.
Number and Operations: Understand Fractions	N.ME.04.20 Understand fractions as parts of a set of objects.
Number and Operations: Use Factors and Multiples	N.MR.04.07 Use factors and multiples to compose and decompose whole numbers.
Measurement: Use Perimeter and Area Formulas	M.PS.04.09 Solve contextual problems about perimeter and area of squares and rectangles in compound shapes.
Measurement: Measure Using Common Tools and Appropriate Units	M.TE.04.04 Measure surface area of cubes and rectangular prisms by covering and counting area of the faces.
Number and Operations: Multiply and Divide Whole Numbers	N.FL.04.11 Divide numbers up to four-digits by one-digit numbers and by 10.
	N.FL.04.12 Find the value of the unknowns in equations such as $a \div 10 = 25$; $125 \div b = 25$.
	N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.
Data and Probability: Represent and Solve Problems for Given Data	D.RE.04.02 Order a given set of data, find the median, and specify the range of values.
	D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.
	D.RE.04.01 Construct tables and bar graphs from given data.
Number and Operations: Multiply and Divide Whole Numbers	N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.
	N.MR.04.14 Solve contextual problems involving whole number multiplication and division.
Measurement: Use Perimeter and Area Formulas	M.TE.04.07 Find one dimension of a rectangle given the other dimension and its perimeter or area.
	M.TE.04.08 Find the side of a square given its perimeter or area.

Quarter 4	Fourth Grade Mathematics
Number and Operations: Add and Subtract Decimal Fractions	N.MR.04.31 For problems that use addition and subtraction of decimals through hundredths, represent with mathematical statements and solve.
Number and Operations: Multiply Fractions by Whole Numbers	N.MR.04.30 Multiply fractions by whole numbers, using repeated addition and area or array models.
Number and Operations: Understand Fractions	N.ME.04.24 Know that fractions of the form m/n where m is greater than n , are greater than 1 and are called improper fractions; locate improper fractions on the number line.
	N.MR.04.21 Explain why equivalent fractions are equal, using models such as fraction strips or the number line for fractions with denominators of 12 or less, or equal to 100.
Number and Operations: Read, Interpret and Compare Decimal Fractions	N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.
	N.MR.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.
	N.ME.04.17 Locate tenths and hundredths on a number line.
	N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10×10 , $10 \times 10 \times 10$, etc., e.g., powers of 10.
Number and Operations: Add and Subtract Decimal Fractions	N.FL.04.32 Add and subtract decimals through hundredths.
Measurement: Problem Solving	M.PS.04.11 Solve contextual problems about surface area.
Number and Operations: Understand Fractions	N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.
	N.MR.04.23 Understand the relationships among halves, fourths, and eighths and among thirds, sixths, and twelfths.
	N.MR.04.25 Write improper fractions as mixed numbers, and understand that a mixed number represents the number of “wholes” and the part of a whole remaining, e.g., $5/4 = 1 + 1/4 = 1 \frac{1}{4}$.
Number and Operations: Add and Subtract Fractions	N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.
	N.MR.04.27 Add and subtract fractions less than 1 with denominators through 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g., $1/12 + 5/12 = 6/12$; $1/6 + 5/12 = 7/12$; $3/10 - 23/100 = 7/100$.
	N.MR.04.28 Solve contextual problems involving sums and differences for fractions where one denominator is a multiple of the other (denominators 2 through 12, and 100).
Number and Operations: Multiply and Divide Decimal Fractions	N.MR.04.29 Find the value of an unknown in equations such as $1/8 + x = 5/8$ or $3/4 - y = 1/2$.
	N.FL.04.33 Multiply and divide decimals up to two decimal places by a one-digit whole number where the result is a terminating decimal, e.g., $0.42 \div 3 = 0.14$, but not $5 \div 3 = 1.6$.