

# MATH Quarter 1

Math Quarter 1

Essential Skill Component	Standard	Sub-components	Quarterly Focus
<b>Mathematical Reasoning</b>			
Applies strategies to solve problems.	Embedded throughout 3rd grade Common Core Standards for Mathematics		all 4 quarters
Communicates mathematical thinking.	Embedded throughout 3rd grade Common Core Standards for Mathematics and Language Arts		all 4 quarters
<b>Operations and Algebraic Thinking</b>			
Multiplies whole numbers	3.OA.1		Understands products of whole numbers as the total number of objects in a group (ex: 5 groups of 7 objects equals 35 objects)
Divides whole numbers	3.OA.2		Understands quotients of whole numbers as the total number of objects shared into equal groups (ex: 35 objects shared equally into 5 groups equals 7 objects in each group)
Solves problems involving multiplication and division.	3.OA.4, 3.OA.5, 3.OA.6, 3.OA.7		<p><b>Problem Solving:</b> Determines the unknown number in an multiplication or division equation</p> <p><b>Multiplication Properties:</b> Applies multiplication properties <b>Focus:</b> Commutative Property (<math>6 \times 4 = 24</math>, so <math>4 \times 6 = 24</math>)</p> <p><b>Fluency:</b> Multiplies and divides fluently within 100 *4th quarter mastery</p>
Solves word problems using the four operations.	3.OA.3, 3.OA.8		<p><b>Problem Solving:</b> Solves problems using multiplication and division within 100 in situations involving equal groups, arrays, and measurement quantities (Use manipulatives, drawings, stickers, etc., to illustrate and solve a problem)</p> <p>Solves two step word problems using the four operations, represent the problems using equations with letters standing for the unknown quantity, assess the reasonableness of answers using mental computation and estimation strategies including rounding</p>
Identifies and explains patterns	3.OA.9		<p>Identifies and uses patterns and explain them using the properties of operations</p> <p>Examples: 4 times a number is always even, the sum of two odd numbers is always an even number, when one factor is 5, the product always ends in 5 or 0</p>
<b>Number Sense and Operations in Base Ten</b>			
Demonstrates understanding of place value	3.NBT.3		All 4 quarters
Rounds whole numbers to the nearest 10 or 100	3.NBT.1		All 4 quarters
Adds and subtracts whole numbers	3.NBT.2		All 4 quarters
<b>Number Sense and Operations - Fractions</b>			
Represents fractions as numbers on a number line	3.NF.A.1, 3.NF.A.2	3.NF.2a, 3.NF.2b	Will be assessed quarters 2-4
Recognizes equivalent fractions	3.NF.A.3	3.NF.3a, 3.NF.3b, 3.NF.3c, 3.NF.3d	

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<b>Measurement and Data</b>			
Tells and writes time to the nearest minute	3.MD.1		All 4 quarters - number lines and/or diagrams may be used
Solves word problems involving addition and subtraction of time	3.MD.1		All 4 quarters - number lines and/or diagrams may be used
Measures and estimates volumes and masses (metric units)	3.MD.2		Solves 1-step word problems using metric units (grams, kilograms, liters)
Draws a picture graph and bar graph to represent data	3.MD.3		Creates bar graphs and picture graphs to represent data in several categories
Solves one and two-step word problems using information from a graph	3.MD.3		Solves 1 and 2 step problems based on the information in the graph
Measures lengths to $\frac{1}{2}$ and $\frac{1}{4}$ of an inch	3.MD.4		Measures in inches to the halves, and fourths on a ruler then represent the data on a line plot <b>Focus:</b> measuring to the $\frac{1}{2}$ inch
Finds area of figures by counting units or by multiplying	3.MD.5, 3.MD.6, 3.MD.7	3.MD.5a, 3.MD.5b, 3.MD.7a, 3.MD.7b, 3.MD.7c, 3.MD.7d	Will be assessed 2nd-4th quarter
Solves problems involving perimeters	3.MD.8		Will be assessed 2nd-4th quarter
<b>Geometry</b>			
Recognizes attributes of various shapes	3.G.1, 3.G.2		Understands shapes in different categories (square, rectangle, rhombus) can also belong in larger categories with similar attributes (quadrilaterals)