

3rd Grade Math Concepts by Quarter

This serves as a general sequence of math concepts for the school year. The concepts within a quarter are grouped by domain and may not be listed in the order they are taught. There may be slight variability across the district in order to meet specific needs of students.

1st Quarter	2nd Quarter
<p><u>Operations and Algebraic Thinking</u></p> <ul style="list-style-type: none"> ● Interpret products of whole numbers <p><u>Numbers in Base Ten</u></p> <ul style="list-style-type: none"> ● Round whole numbers to nearest 10 or 100 ● Fluently add and subtract within 1000 using strategies and algorithms ● Multiply one-digit numbers by multiples of 10 using place value strategies 	<p><u>Operations and Algebraic Thinking</u></p> <ul style="list-style-type: none"> ● Interpret whole number quotients of whole numbers ● Determine the unknown whole number in a multiplication or division equation ● Apply properties of operations as strategies to multiply and divide ● Understand division as an unknown-factor problem ● Identify and explain patterns on addition and multiplication tables <p><u>Measurement and Data</u></p> <ul style="list-style-type: none"> ● Recognize area as an attribute of plane figures and understand area measurement ● Measure area by counting square units ● Relate area to multiplication and division
3rd Quarter	4th Quarter
<p><u>Numbers and Operations - Fractions</u></p> <ul style="list-style-type: none"> ● Understand that a fraction is a quantity formed when a whole is partitioned into equal parts ● Understand a fraction as a number on the number line and plot a fraction on a number line ● Explain equivalence of fractions and compare fractions by reasoning about size <p><u>Measurement and Data</u></p> <ul style="list-style-type: none"> ● Solve real world and mathematical problems involving perimeters of polygons <p><u>Geometry</u></p> <ul style="list-style-type: none"> ● Understand that shapes in different categories may share attributes, and that the shared attributes can define a larger category (ie: rhombuses, squares, and rectangles are all quadrilaterals) ● Partition shapes into parts with equal area; express area as a fraction of the whole 	<p><u>Operations and Algebraic Thinking</u></p> <ul style="list-style-type: none"> ● Use multiplication and division within 100 to solve word problems ● Fluently multiply and divide within 100 (facts up to 10x10) ● Solve two-step word problems using the four operations (addition, subtraction, multiplication, division) involving whole numbers and whole number answers <p><u>Measurement and Data</u></p> <ul style="list-style-type: none"> ● Tell and write time to the nearest minute using AM and PM and measure time intervals in minutes ● Measure and estimate liquid volumes and masses of objects using standard units (g, kg, l) ● Use the four operations (addition, subtraction, multiplication, division) to solve one-step word problems involving volume and mass ● Draw a scaled picture graph or bar graph to represent a set of data; solve one and two-step problems using the data ● Generate measurement data by measuring length to the nearest $\frac{1}{4}$ or $\frac{1}{2}$ inch; show data by making a line plot

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