

### Kindergarten Mathematics – Counting and Cardinality

<b>Knowing number names and the count sequence</b>	
<b>K.CC.1</b>	Count to 100 by ones and by tens.
<b>K.CC.2</b>	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
<b>K.CC.3</b>	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).
<b>Count to tell the number of objects</b>	
<b>K.CC.4</b>	Understand the relationship between numbers and quantities; connecting counting to cardinality.
<b>K.CC.4a</b>	When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.
<b>K.CC.4b</b>	Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.
<b>K.CC.4c</b>	Understand that each successive number name refers to a quantity that is one larger.
<b>K.CC.5</b>	Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as ten things in a scattered configuration; given a number from 1-20, counted out that many objects.
<b>Comparing numbers.</b>	
<b>K.CC.6</b>	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. Include groups with up to ten objects.
<b>K.CC.7</b>	Compare two numbers between 1 and 10 presented as written numerals.

### Kindergarten Mathematics – Operations and Algebraic Thinking

<b>Understanding addition as putting together and adding to, and understand subtraction as taking apart and taking from.</b>	
<b>K.OA.1</b>	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps) acting out situations, verbal explanations, expressions or equations. Drawings need not show details, but should show the mathematics in the problem -- this applies whenever drawings are mentioned in the standards.
<b>K.OA.2</b>	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
<b>K.OA.3</b>	Decompose numbers less than or equal to ten into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$ ).
<b>K.OA.4</b>	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.
<b>K.OA.5</b>	Fluently add and subtract within 5.

### Kindergarten Mathematics – Number and Operations in Base Ten

<b>Working with numbers 11-19 to gain foundations for place value.</b>	
<b>K.NBT.1</b>	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions or equations. Drawings need not show details, but should show the mathematics in the problem – this applies wherever drawings are mentioned in the standards.

### Kindergarten Mathematics – Measurement and Data

<b>Describe and compare measurable attributes.</b>	
<b>K.MD.1</b>	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
<b>K.MD.2</b>	Directly compare two objects with a measurable attribute in common, to see which object has

	“more of” / “less of” the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller / shorter.
<b>Classify objects and count the number of objects in each category</b>	
<b>K.MD.3</b>	Classify objects or people into given categories; count the numbers in each category and sort the categories by count. Limit counts to be less than or equal to 10.

### Kindergarten Mathematics – Geometry

<b>Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).</b>	
<b>K.G.1</b>	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.
<b>K.G.2</b>	Correctly name shapes regardless of their orientations or overall size.
<b>K.G.3</b>	Identify shapes as two dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).
<b>Analyze, compare, create, and compose shapes.</b>	
<b>K.G.4</b>	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/”corners”) and other attributes (e.g., having sides of equal length).
<b>K.G.5</b>	Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.
<b>K.G.6</b>	Compose simple shapes to form larger shapes. For example, “Can you join these two triangles with full sides touching to make a rectangle?”