



## Kindergarten Math Curriculum

### K.CC.A - Know number names and the count sequence

Unit Description	Standards
<b>Module 1-Numbers to 10</b> <ul style="list-style-type: none"> <li>Know number names and the count sequence</li> <li>Count to tell the number of objects</li> </ul>	<b>K.CC.A1</b> -Count to 100 by ones and by tens. <b>K.CC.A2</b> -Count forward beginning from a given number within the known sequence (instead of having to begin at 1). <b>K.CC.A3</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).

### K.CC.B - Count to tell the number of objects

<b>Module 1-Numbers to 10</b> <ul style="list-style-type: none"> <li>Know number names and the count sequence</li> <li>Count to tell the number of objects</li> </ul>	<b>K.CC.B4</b> -Understand the relationship between numbers and quantities; connect counting to cardinality. <b>K.CC.B4a</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.B4b</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.B4c</b> -Understand that each successive number name refers to a quantity that is one larger. <b>K.CC.B5</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 10 things in a scattered configuration; given a number from 1-20, count out that many objects.
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### K.MD.B - Classify Objects and count the number of objects in each category

**Module 2- Two and Three-Dimensional Shapes**

- Classify objects and count the number of objects in each category
- Analyze, compare, create and compose shapes
- Identify and Describe Shapes

**K.MD.B3**-Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.1

**K.G.A - Identify and Describe Shapes**

**Module 2- Two and Three-Dimensional Shapes**

- Classify objects and count the number of objects in each category
- Analyze, compare, create and compose shapes
- Identify and Describe Shapes

**K.G.A1**-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*.

**K.G.A2**- Correctly name shapes regardless of their orientations or overall size.

**K.G.A3**- Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").

**K.G.B- Analyze, compare, create and compose shapes**

**Module 2- Two and Three-Dimensional Shapes**

- Classify objects and count the number of objects in each category
- Analyze, compare, create and compose shapes
- Identify and Describe Shapes

**K.G.B4**- 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).

**K.CC.C- Compare Numbers**

**Module 3- Comparison on length, weight, capacity and numbers to 10**

- Compare Numbers
- Describe and Compare measurable attributes

**K.CC.C6-** 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.

**K.CC.C7-** Compare two numbers between 1 and 10 presented as written numerals.

**K.MD.A- Describe and Compare Measurable Attributes**

**Module 3- Comparison on length, weight, capacity and numbers to 10**

- Compare Numbers
- Describe and Compare measurable attributes

**K.MD.A1-** Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

**K.MD.A2-** 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.*

**K.OA.A- Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.**

**Module 4- Number Pairs, addition, and subtraction to 10.**

- Understand addition as putting together and adding to and understand subtraction as taking apart and taking from.

**K.OA.A1-** Represent addition and subtraction with objects, fingers, mental images, drawings<sup>1</sup>, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

**K.OA.A2-** Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

**K.OA.A3-** Decompose numbers less than or equal to 10 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  $5 = 4 + 1$ ).

**K.OA.A4-** 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.

**K.OA.A5-** Fluently add and subtract within 5.

## K.CC.A- Know Number Names and Count Sequence

### Module 5- Numbers 10-20 and counting to 100.

- Know number names and the count sequence
- Count to tell the number of objects
- Work with numbers 11-19 to gain foundations for place value

**K.CC.A1**-Count to 100 by ones and by tens.

**K.CC.A2**-Count forward beginning from a given number within the known sequence (instead of having to begin at 1).

**K.CC.A3**-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).

## K.CC.B - Count to tell the number of objects

### Module 5- Numbers 10-20 and counting to 100.

- Know number names and the count sequence
- Count to tell the number of objects
- Work with numbers 11-19 to gain foundations for place value

**K.CC.B4**-Understand the relationship between numbers and quantities; connect counting to cardinality.

**K.CC.B4a**-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.

**K.CC.B4b**-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.

**K.CC.B4c**-Understand that each successive number name refers to a quantity that is one larger.

**K.CC.B5**-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 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

## K.NBT.A- Work with numbers 11-19 to gain foundations for place value

### Module 5- Numbers 10-20 and counting to 100.

**K.NBT.A1**- Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (such as  $18 =$

<ul style="list-style-type: none"> <li>• Know number names and the count sequence</li> <li>• Count to tell the number of objects</li> <li>• Work with numbers 11-19 to gain foundations for place value</li> </ul>	<p>10 + 8); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.</p>
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## K.CC.B- Count to Tell the Number of Objects

<p><b>Module 6- Analyzing, Comparing and Composing Shapes</b></p> <ul style="list-style-type: none"> <li>• Count and tell the number of objects</li> <li>• Analyze, compare, create and compose shapes</li> </ul>	<p><b>K.CC.B4</b>-Understand the relationship between numbers and quantities; connect counting to cardinality.</p> <p><b>K.CC.B4a</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.</p> <p><b>K.CC.B4b</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.</p> <p><b>K.CC.B4c</b>-Understand that each successive number name refers to a quantity that is one larger.</p> <p><b>K.CC.B5</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 10 things in a scattered configuration; given a number from 1-20, count out that many objects.</p>
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## K.G.B- Analyze, Compare and Compose Shapes

<p><b>Module 6- Analyzing, Comparing and Composing Shapes</b></p> <ul style="list-style-type: none"> <li>• Count and tell the number of objects</li> <li>• Analyze, compare, create and compose shapes</li> </ul>	<p><b>K.G.B5</b>- Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.</p> <p><b>K.G.B6</b>- Compose simple shapes to form larger shapes. <i>For example, "Can you join these two triangles with full sides touching to make a rectangle?"</i></p>
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