



SOUTHERN LEHIGH SCHOOL DISTRICT
 5775 Main Street
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Scope and Sequence for **Kindergarten Mathematics**

Standards for Mathematical Practice:

MP1 Make sense of problems and persevere in solving them.
MP2 Reason abstractly and quantitatively.
MP3 Construct viable arguments and critique the reasoning of others.
MP4 Model with mathematics.

MP5 Use appropriate tools strategically.
MP6 Attend to precision.
MP7 Look for and make use of structure.
MP8 Look for and express regularity in repeated reasoning.

K.CC - Counting and Cardinality

CCSSM	PA Core Standards for Mathematics
<p>Know number names and the count sequence.</p> <p>K.CC.1 Count to 100 by ones and by tens.</p> <p>K.CC.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).</p> <p>K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (0 representing a count of no objects).</p>	<p>CC.2.1.K.A.1 Know number names and write and recite the count sequence.</p>
<p>Count to tell the number of objects.</p> <p>K.CC.4 Understand the relationship between numbers and quantities, connect counting to cardinality.</p> <p>K.CC.5 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>	<p>CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects.</p>

K.CC - Counting and Cardinality ...*Continued*

CCSSM	PA Core Standards PA Core Standards for Mathematics
<p>Compare numbers.</p> <p>K.CC.6 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.</p> <p>K.CC.7 Compare two numbers between 1 and 10 presented as written numerals.</p>	<p>CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities.</p>

K.OA – Operations and Algebraic Thinking

CCSSM	PA Core Standards PA Core Standards for Mathematics
<p>Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.</p> <p>K.OA.1 Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.</p> <p>K.OA.2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent a problem.</p> <p>K.OA.3 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 $5=4+1$).</p> <p>K.OA.4 For any number from 1-9, 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.</p> <p>K.OA.5 Fluently add and subtract within 5.</p>	<p>CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10.</p>

K.NBT – Number and Operations in Base Ten

CCSSM	PA Core Standards for Mathematics PA Core Standards
<p>Works with numbers 11-19 to gain foundations for place value.</p> <p>K.NBT.1 Compose and decompose numbers from 11-19 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 (e.g., $18=10+8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, nine ones.</p>	<p>CC.2.1.K.B.1 Use place value to compose and decompose numbers within 19.</p>

K.MD – Measurement and Data

CCSSM	PA Core Standards for Mathematics PA Core Standards
<p>Describe and compare measurable attributes.</p> <p>K.MD.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.</p> <p>K.MD.2 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. <i>For example, directly compare the heights of two children and describe one child as taller/shorter.</i></p>	<p>CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.</p>
<p>Classify object and count the number of objects in each category.</p> <p>K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.</p>	<p>CC.2.4.K.A.4 Classify objects and count the number of objects in each category.</p>

K.G – Geometry

CCSSM	PA Core Standards for Mathematics PA Core Standards
<p>Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).</p> <p>K.G.1 Describe objects in the environment using names of shapes and describe the relative positions of these objects using terms such as <i>above</i>, <i>below</i>, <i>beside</i>, <i>in front of</i>, <i>behind</i>, and <i>next to</i>.</p> <p>K.G.2 Correctly name shapes regardless of their orientations or overall size.</p> <p>K.G.3 Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).</p>	<p>CC.2.3.K.A.1 Identify and describe two- and three- dimensional shapes.</p>
<p>Analyze, compare, create, and compose shapes.</p> <p>K.G.4 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).</p> <p>K.G.5 Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.</p> <p>K.G.6 Compose simple shapes to form larger shapes. For example, “Can you join these two triangles with full sides touching to make a rectangle?”</p>	<p>CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes.</p>