

**Berlin Brothersvalley School District Berlin  
 Brothersvalley Elementary School  
 Math  
 Kindergarten  
 1st Nine Weeks**

<b>Big Idea(s)</b>	<b>Concept(s)</b>	<b>Competencies</b>	<b>Essential Questions</b>
<p>Mathematical relationships among numbers can be represented, compared, and communicated.</p> <p>Geometric relationships can be described, analyzed, and classified based on spatial reasoning and/or visualization</p>	<p><b>Students will know...</b></p> <ul style="list-style-type: none"> <li>● Numbers 0-10</li> <li>● Four Basic Shapes</li> <li>● Simple addition and subtraction</li> </ul>	<p><b>Students will be able to...</b></p> <ul style="list-style-type: none"> <li>● Write, identify, and count numbers 0-10</li> <li>● Draw and identify the four basic shapes</li> <li>● Compose and decompose numbers 0-5</li> </ul>	<p>How is mathematics used to quantify, compare, represent, and model numbers?</p> <p>How can the application of the attributes of geometric shapes support mathematical reasoning and problem solving?</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Numbers 0-1 Value of 0 and 1 Number writing 0 and 1 Why numbers are important</p> <p>Matching paper lengths with a partner</p> <p>Identify Shapes Hexagon, square, circle, triangle, rectangle, trapezoid, rhombus</p> <p>Rote counting to 10</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.4.K.A.1</b> Describe and compare attributes of length, area, weight, and capacity of everyday objects.</p> <p><b>CC.2.3.K.A.1</b> Identify and describe two- and three dimensional shapes.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Numbers 2 and 3 Value of 2 and 3 Writing numbers 2 and 3 Rote counting 0-10</p> <p>Graphing ages with bar graph</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.4.K.A.4</b> Classify objects and count the number of objects in each category.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Numbers 4 and 5 Value of 4 and 5 Writing numbers 4 and 5 Rote counting 0-10</p> <p>Ways to represent the number 5 (counting on fingers, tally marks, object representation)</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.4.K.A.4</b> Classify objects and count the number of objects in each category.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Numbers 6 and 7 Value of 6 and 7 Writing numbers 6 and 7 Rote counting 0-10</p> <p>Composing and decomposing numbers</p> <p>Five Frames to simple show simple addition</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.1.K.B.1</b> Use place value to compose and decompose numbers within 19.</p> <p><b>CC.2.2.K.A.1</b> Extend the concepts of putting together and taking apart to add and subtract within 10.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Numbers 8 and 9 Value of 8 and 9 Writing numbers 8 and 9 Rote counting 0-10</p> <p>Shapes Straight lines, corners, curves, how alike and how different</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.3.K.A.1</b> Identify and describe two- and three dimensional shapes.</p> <p><b>CC.2.3.K.A.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Number 10 Value of 10 Writing number 10 Rote counting 0-10</p> <p>Patterns Repeated patterns, growing patterns Matching value of dots</p>	<p>1 week</p>	<p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p> <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities</p> <p><b>CC.2.2.K.A.1</b> Extend the concepts of putting together and taking apart to add and subtract within 10.</p>	<p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Comparing values up to ten with dot cards</p> <p>Triangle: Sides, vertexes, straight, curved Is it a triangle or not?</p> <p>Numbers boards to identify number of shapes with the number (0-10)</p>	1 week	<p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> <p><b>CC.2.3.K.A.1</b> Identify and describe two- and three dimensional shapes.</p>	NA
<p><u>Topics</u></p> <p>Simple addition and subtraction up to 5</p>	1 week	<p><b>CC.2.2.K.A.1</b> Extend the concepts of putting together and taking apart to add and subtract within 10.</p>	NA
<p><u>Topics</u></p> <p>Sort and classify objects by attribute (color, shape, size)</p> <p>Circles No straight lines, curves, no vertex Find circles</p>	1 week	<p><b>CC.2.3.K.A.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	NA

Standards Legend: Essential Important Supplementary