

**Berlin Brothersvalley School District**  
**Berlin Brothersvalley Elementary School**  
**Math**  
**Kindergarten**  
**3rd 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>● Teen Numbers</li> <li>● Two and Three Dimensional Shapes</li> <li>● Addition and subtraction</li> <li>● Number 0-100</li> <li>● Bar graph</li> <li>● Addition and Subtraction</li> </ul>	<p><b>Students will be able to...</b></p> <ul style="list-style-type: none"> <li>● Identify, write and count 0-100</li> <li>● Compare two and three dimensional shapes.</li> <li>● Name three dimensional shapes</li> <li>● Add and subtract numbers 0-20.</li> <li>● Use information to create a bar graph</li> <li>● Add and Subtract within 0-10</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>Counting adding and identifying number 2-12</p> <p>Bar graphing numbers 2-12</p> <p>Finding combinations of 10 with manipulatives</p> <p>Identify and draw shapes</p>	1 week	<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><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><b>CC.2.3.K.A.1</b> Identify and describe two- and three dimensional shapes.</p>	NA
<p><u>Topics</u></p> <p>Teen Numbers Tens and the ones</p> <p>Representing addition clearly and simply</p> <p>What is equal?</p>	1 week	<p><u>PA Standards</u></p> <p><b>CC.2.1.K.B.1</b> Use place value to compose and decompose numbers within 19.</p>	<p><u>Assessment Anchors &amp; Eligible Content</u></p> <p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
<p>Addition using the addition sign and manipulatives</p> <p>Write numbers 0-100</p> <p>Use shapes to create different shapes (squares, rectangles and triangles)</p>	<p>1 week</p>	<p><b>CC.2.1.K.B.1</b> Use place value to compose and decompose numbers within 19.</p> <p><b>CC.2.1.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.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	<p>NA</p>
<p><u>Topics</u></p> <p>Compare heights and lengths, shortest to tallest</p> <p>Bar graph with favorite pets</p> <p>3 dimensional shapes (cylinders, cones, spheres, rectangular prisms)</p>	<p><u>Approx # of weeks</u></p> <p>1 week</p>	<p><u>PA Standards</u></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.2.4.K.A.4</b> Classify objects and count the number of objects in each category</p> <p><b>CC.2.3.K.A.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	<p><u>Assessment Anchors &amp; Eligible Content</u></p> <p>NA</p>

<p><b><u>Topics</u></b></p> <p>Comparison of 2 and 3 dimensional shape Circle, cone, cube, cylinder, edge, face, rectangle, rectangular prism, sphere, square, triangle</p> <p>Attributes Height lengths (shorter taller)</p>	<p><b><u>Approx # of weeks</u></b></p> <p>1 week</p>	<p><b><u>PA Standards</u></b></p> <p><b>CC.2.3.K.A.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes.</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><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p>NA</p>
<p><b><u>Topics</u></b></p> <p>Subtraction Minus equal, take away</p> <p>Model subtraction Attributes (color, shape, size, thickness)</p>	<p><b><u>Approx # of weeks</u></b></p> <p>1 week</p>	<p><b><u>PA Standards</u></b></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><b>CC.2.4.K.A.1</b> Describe and compare attributes of length, area, weight, and capacity of everyday objects.</p>	<p><b><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p>NA</p>
<p><b><u>Topics</u></b></p> <p>Combination that add to ten Mixed addition and subtraction Count back, count forward Write teen numbers</p>	<p><b><u>Approx # of weeks</u></b></p> <p>1 week</p>	<p><b><u>PA Standards</u></b></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><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</p>	<p><b><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p>NA</p>

		<p>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><u>Topics</u></b></p> <p>Addition, Subtraction and equal number stories Counting back and counting forward with addition and subtraction</p> <p>Domino addition (add the dots)</p> <p>Counting on 10-19 with 2 ten frames</p>	<p><b><u>Approx # of weeks</u></b></p> <p>1 week</p>	<p><b><u>PA Standards</u></b></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><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><u>Assessment Anchors &amp; Eligible Content</u></b></p> <p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors &amp; Eligible Content</u>
2 Dimensional and 3 Dimensional shapes Cone, cube, cylinder, rectangular prism, Counting by ones and tens Number order and number value 0-30 Greater than, less than	1 week	<p><b>CC.2.3.K.A.2</b>            Analyze, compare, create, and compose two- and three-dimensional shapes.</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><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>	<u>Addition</u>  NA

Standards Legend: Essential Important Supplementary