

Berlin Brothersvalley School District
Berlin Brothersvalley Elementary School
Math
Kindergarten
3rd Nine Weeks

Big Idea(s)	Concept(s)	Competencies	Essential Questions
<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>Students will know...</p> <ul style="list-style-type: none"> ● Teen Numbers ● Two and Three Dimensional Shapes ● Addition and subtraction ● Number 0-100 ● Bar graph ● Addition and Subtraction 	<p>Students will be able to...</p> <ul style="list-style-type: none"> ● Identify, write and count 0-100 ● Compare two and three dimensional shapes. ● Name three dimensional shapes ● Add and subtract numbers 0-20. ● Use information to create a bar graph ● Add and Subtract within 0-10 	<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 & Eligible Content</u>
Counting adding and identifying number 2-12 Bar graphing numbers 2-12 Finding combinations of 10 with manipulatives Identify and draw shapes	1 week	CC.2.1.K.A.1 Know number names and write and recite the count sequence CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects. CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities. CC.2.4.K.A.4 Classify objects and count the number of objects in each category. CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10. CC.2.3.K.A.1 Identify and describe two- and three dimensional shapes.	NA
<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors & Eligible Content</u>
Teen Numbers Tens and the ones Representing addition clearly and simply What is equal?	1 week	CC.2.1.K.B.1 Use place value to compose and decompose numbers within 19.	NA

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors & 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>	1 week	<p>CC.2.1.K.B.1 Use place value to compose and decompose numbers within 19.</p> <p>CC.2.1.K.A.1 Know number names and write and recite the count sequence</p> <p>CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects.</p> <p>CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities.</p> <p>CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	NA
<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors & Eligible Content</u>
<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>	1 week	<p>CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.</p> <p>CC.2.4.K.A.4 Classify objects and count the number of objects in each category</p> <p>CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes.</p>	NA

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors & Eligible Content</u>
Comparison of 2 and 3 dimensional shape Circle, cone, cube, cylinder, edge, face, rectangle, rectangular prism, sphere, square, triangle Attributes Height lengths (shorter taller)	1 week	CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes. CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.	NA
<u>Topics</u> Subtraction Minus equal, take away Model subtraction Attributes (color, shape, size, thickness)	1 week	CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10. CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.	NA
<u>Topics</u> Combination that add to ten Mixed addition and subtraction Count back, count forward Write teen numbers	1 week	CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10. CC.2.1.K.A.1 Know number names and write and recite the count sequence CC.2.1.K.A.2 Apply one-to-one correspondence	NA

		<p>to count the number of objects.</p> <p>CC.2.1.K.A.3</p> <p>Apply the concept of magnitude to compare numbers and quantities.</p>	
<p><u>Topics</u></p> <p>Addition, Subtraction and equal number stories</p> <p>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><u>Approx # of weeks</u></p> <p>1 week</p>	<p><u>PA Standards</u></p> <p>CC.2.2.K.A.1</p> <p>Extend the concepts of putting together and taking apart to add and subtract within 10.</p> <p>CC.2.1.K.A.1</p> <p>Know number names and write and recite the count sequence</p> <p>CC.2.1.K.A.2</p> <p>Apply one-to-one correspondence to count the number of objects.</p> <p>CC.2.1.K.A.3</p> <p>Apply the concept of magnitude to compare numbers and quantities.</p>	<p><u>Assessment Anchors & Eligible Content</u></p> <p>NA</p>

<u>Topics</u>	<u>Approx # of weeks</u>	<u>PA Standards</u>	<u>Assessment Anchors & Eligible Content Addition</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>CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes.</p> <p>CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10.</p> <p>CC.2.1.K.A.1 Know number names and write and recite the count sequence</p> <p>CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects.</p> <p>CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities.</p>	NA

Standards Legend: Essential Important Supplementary