Berlin Brothersvalley School District
Berlin Brothersvalley Elementary School
Math
Kindergarten
4th Nine Weeks

Big Idea(s)	Concept(s)	Competencies	Essential Questions
Patterns exhibit relationships that can be extended, described, and generalized.	**Students will know…** ● Heavier and lighter ● SImple estimation ● Different combinations of numbers 0-10 ● Addition and subtraction ● Bar graphs ● Attributes ● A steady beat ● Place value of tens and ones ● Consecutive numbers ● Number 0-100	**Students will be able to…** ● Compare objects with weight ● Estimately closely to a set of objects ● Create combination of numbers 0-10 ● Solve simple addition and subtraction problems ● Organize information to complete a bar graph ● Sort using attributes ● Count using a steady beat to measure time ● Identify teen numbers using place value ● Order random numbers according to value ● Write and identify numbers 0-100	How is mathematics used to quantify, compare, represent, and model numbers? How can patterns be used to describe relationships in mathematical situations?

Topics	Approx # of weeks 1 week	PA Standards	Assessment Anchors & Eligible Content
Weight (heavier, lighter) Collect data and graph Estimate through comparison and counting Exact, Fewer, more, too high, too low		**CC.2.4.K.A.1** Describe and compare attributes of length, area, weight, and capacity of everyday objects. **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	NA
Topics	**Approx # of weeks** 1 week	**PA Standards**	**Assessment Anchors & Eligible Content**
Using bead to create combinations, groups and number sentences of a specific number Addition and subtraction number stories Growing collection to count and record data DIce addition (adding and counting on within 5) Greater than Counting on Total		**CC.2.2.K.A.1** Extend the concepts of putting together and taking apart to add and subtract within 10.	NA

Plus			
Topics Attributes with blocks (color, shape, size, thickness) Attributes with touch for 3 dimensional shapes Create 3 dimensional shapes (sides, vertex, compare 2 dimensional and 3 dimensional shapes) Counting to measure time (steady beat, fast, fewer, longer)	**Approx # of weeks** 1 week	**PA Standards** **CC.2.3.K.A.1** Identify and describe two- and three dimensional shapes. **CC.2.3.K.A.2** Analyze, compare, create, and compose two- and three-dimensional shapes. **CC.2.1.K.A.1** Know number names and write and recite the count sequence.	**Assessment Anchors & Eligible Content** NA
Topics Count on, count up Dice Subtraction within 5 COunting back, difference, less minus. greater	**Approx # of weeks** 1 week	**PA Standards** **CC.2.1.K.A.1** Know number names and write and recite the count sequence. **CC.2.2.K.A.1** Extend the concepts of putting together and taking apart to add and subtract within 10.	**Assessment Anchors & Eligible Content** NA

Topics	Approx # of weeks 1 week	PA Standards	Assessment Anchors & Eligible Content
Place value of tens and ones (teen numbers) Ones, tens Finding pairs that add to ten with a number story Adding and Subtracting Subtraction symbol Greater than Less than		**CC.2.1.K.B.1** Use place value to compose and decompose numbers within 19.	NA
Topics Decomposing numbers subtracting Subtraction, counting down, decomposing numbers Number stories with addition and calculations addition symbol, subtraction, symbol, equal, clear Non consecutive numbers to order from great to smaller Greater Smaller Least Addition (greater,total) Number grid 0-100 Writing and identifying 0-100	**Approx # of weeks** 1 week	**PA Standards** **CC.2.1.K.B.1** Use place value to compose and decompose numbers within 19. **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	**Assessment Anchors &** **Eligible Content** NA

Topics	Approx # of weeks	PA Standards	Assessment Anchors & Eligible Content
Simple addition and Subtraction 0-20 Equivalent names for numbers 1-20 Coins (identification and value)	1 week	**CC.2.1.K.B.1** Use place value to compose and decompose numbers within 19. **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	NA
Topics	**Approx # of weeks**	**PA Standards**	**Assessment Anchors & Eligible Content**
Positional Words (above, below, beside, left, right) Subtraction 0-10 Addition and Subtraction 0-20 Height, width and area (short, tall, wide, narrow) Comparison of weight and Capacity by feeling (more or less)	1 week	**CC.2.1.K.B.1** Use place value to compose and decompose numbers within 19. **CC.2.4.K.A.1** Describe and compare attributes of length, area, weight, and capacity of everyday objects.	NA

Topics	Approx # of weeks	PA Standards	Assessment Anchors & Eligible Content
Adding on and Counting Simple addition sentence 2-12 Positional words (above, below, beside, left, right) Measuring time in seconds Combinations of double addition facts Finding combinations that add to ten	1 week	**CC.2.1.K.B.1** Use place value to compose and decompose numbers within 19.	NA

Standards Legend: Essential   Important   Supplementary