Cambria Heights School District Curriculum

| Course Name | Mathematics |
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| Grade Level | Kindergarten |


| Unit 1 | Counting and Cardinality |  |  |  |
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| Time Frame | 4-5 Weeks |  |  |  |
| Key Concepts | Essential Questions | PA Core Standard (Descriptor) | Eligible Content (Grades 3-5) | Terminology |
| Number identification (naming and writing) Counting | How do I count to 100 ? <br> How do I count forward? <br> How do I write numbers? <br> How do I represent a number with objects? | CC.2.1.K.A. 1 Know number names and write and recite the count sequence. | Count to 100 by ones and by tens. <br> Count forward beginning from a given number within the known sequence (instead of having to begin at 1 ). <br> Write numbers from 0 to 20. Represent a number of objects with a written numeral 020 (with 0 representing a count of no objects). | Counting on |
| One-to-one correspondence <br> Identify how many | How do I count objects using one-to-one correspondence? <br> How do I identify how many objects are given? | CC.2.1.K.A. 2 <br> Apply one-to one correspondence to count the number of objects. | Understand the relationship between numbers and quantities; connect counting to cardinality. <br> When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object <br> Understand that the last number name said tells the number of objects counted. The | One-to-one correspondence |


|  |  |  | number of objects is the same regardless of <br> their arrangement or the order in which they <br> were counted. <br> Understand that each successive number <br> name refers to a quantity that is one larger. <br> Count to answer "how many?" questions <br> about as many as 20 things arranged in a <br> line, rectangular array, or a circle, or as <br> many as 10 things in a scattered <br> configuration; given a number from 1- <br> 20, count out that many objects. |  |
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| Comparing numbers Greater than Less than Equal to | How do I compare numbers? | CC.2.1.K.A. 3 <br> Apply the concept of magnitude to compare numbers and quantities. | Compare numbers. Compare two numbers between 1 and 10 presented as written numerals. <br> Compare numbers. 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. <br> (Include groups with up to ten objects.) | Greater than Less than Equal |


| Unit 2 | Numbers and Operations - Base Ten |  |  |  |
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| Timeframe | 5-6 Weeks |  |  |  |
| Key Concepts | Essential Questions | PA Core Content Standard | Eligible Content | Terminology |
| Place value | How do I compose and decompose numbers? | CC.2.1.K.B. 1 <br> Use place value to compose and decompose numbers within 19. | Compose and decompose numbers from 1119 into ten ones and some further ones. Use objects or drawings, and record each composition or decomposition by a drawing or equation; understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones. | $\begin{aligned} & \hline \text { Tens } \\ & \text { Ones } \end{aligned}$ |



| Unit 4 Measur | ment and Data- $\qquad$ volumes masses and lengthe of objects. |  |  |  |
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| Timeframe | 5-6 Weeks |  |  |  |
| Key Concepts | Essential Questions | PA Core Content Standard | Eligible Content | Terminology |
| Length Width Height Describing objects | How do I describe objects? | CC.2.4.K.A. 1 <br> Describe and compare attributes of length, area, weight, and capacity of everyday objects. | Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. <br> 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. For example, directly compare the heights of two children and describe one child as taller/shorter. <br> 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. For example, directly compare the heights of two children and describe one child as taller/shorter. | Length Width Height |
| Classifying objects | How do I classify objects? | CC.2.4.K.A. 4 <br> Classify objects and count the number of objects in each category. | Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10 .) |  |


| Unit 5 | Geometry-Reason with Shapes and their attributes |
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| Timeframe |  | 5-6 Weeks |  |  |
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| Key Concepts | Essential Questions | PA Core Content Standard | Eligible Content | Terminology |
| Describing two and three dimensional shapes Distinguish between two and three dimensional shapes | How do I identify two and threedimensional shapes? <br> How do I describe two and threedimensional shapes? | CC.2.3.K.A. 1 <br> Identify and describe two- and threedimensional shapes. | Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to. <br> Correctly name shapes regardless of their orientations or overall size. <br> Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid"). | Above <br> Below <br> Beside <br> In front <br> of Behind <br> Next to <br> Cube <br> Cylinder <br> Sphere <br> Cone <br> Square <br> Rectangle <br> Triangle <br> Circle |
| Identify similarities and differences between two and three dimensional shapes <br> Draw shapes <br> Join simple shapes to form larger shapes | How do I compare two and threedimensional shapes? <br> How do I create two and threedimensional shapes? | CC.2.3.K.A. 2 <br> Analyze, compare, create, and compose two- and threedimensional shapes. | Analyze and compare two- and threedimensional 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). <br> Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes. <br> Compose simple shapes to form larger shapes. For example, "can you join these two triangles with full sides touching to make a rectangle?" | Vertices <br> Corners <br> Equal sides |

