

Pre-Kindergarten

Mathematical Practices: Explanation and examples

- 1 Make sense of problems and persevere in solving them.** PK.MP.1

- 2 Reason abstractly and quantitatively.** PK.MP.2

- 3 Construct viable arguments and critique the reasoning of others** PK.MP.3

- 4 Model with Mathematics** PK.MP.4

- 5 Use appropriate tools strategically** PK.MP.5

- 6 Attend to precision** PK.MP.6

- 7 Look for and make use of structure** PK.MP.7

- 8 Look for and express regularity in repeated reasoning** PK.MP.8

Mathematics Standards: Counting and Cardinality:

- 1 Count to 10 by ones** PK.CC.1

- 2 Represent a number of objects by matching to a written numeral 0-5** PK.CC.3

- 3 Understand the relationship between numerals and quantities to 10.** PK.CC.4
 - a 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 from a variety of cultural contexts, including those of Montana American Indians. PK.CC.4A
 - b Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or order in which they were counted. PK.CC.4B
 - c Understand that each successive number name refers to a quantity that is one larger. PK.CC.4C

- 4 Count to answer "how many?" questions about as many as 10 things arranged in a line, rectangular array, or a circle, or as many as 5 things in a scattered configuration; given a number from 1-10, count out that many objects from a variety of cultural contexts, including those of Montana American Indians** PK.CC.5

- 5 Identify "first" and "last" related to order or position** PK.CC.6

**Mathematics Standards:
Operations and
Algebraic Thinking**

- 1 With support and prompting, demonstrate an understanding of addition and subtraction by using objects, fingers and responding to practical situations. PK.OA.1**
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**Mathematics Standards:
Measurement and Data**

- 1 Recognize the attributes of length, area, weight, and capacity of everyday objects using appropriate vocabulary PK.MD.1**
 - 2 Compare the attributes of length and weight for two objects, including longer/shorter, same length; heavier/lighter, same weight; holds more/less, holds the same amount PK.MD.2**
 - 3 Sort, Categorize, and classify objects by more than one attribute. PK.MD.3**
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**Mathematics Standards;
Geometry**

- 1 Identify relative position of objects in space and use appropriate language PK.G.1**
- 2 Identify various two-dimensional shapes regardless of their size PK.G.2**
- 3 Analyze, compare and sort two- and three-dimensional shapes and objects of different sizes, using informal language to describe their similarities, differences and other attributes. PK.G.4**
- 4 Create and represent three-dimensional shapes using various manipulative materials PK.G.5**