Colorado Mathematics

Grade Pre-K

Adopted 2020

Standards for Mathematical Practice

MP1. Make sense of problems and persevere in solving them. MP1

MP2. Reason abstractly and quantitatively. MP2

MP3. Construct viable arguments and critique the reasoning of others. MP3

MP4. Model with mathematics. MP4

MP5. Use appropriate tools strategically. MP5

MP6. Attend to precision. MP6

MP7. Look for and make use of structure. MP7

MP8. Look for and express regularity in repeated reasoning. MP8

Number and Quantity NQ.1

Counting and Cardinality

A. Know number names and the count sequence. P.CC.A

1. Count verbally or sign to at least 20 by ones. P.CC.A.1

B. Recognize the number of objects in a small set. P.CC.B

2. Instantly recognize, without counting, small quantities of up to five objects and say or sign the number. P.CC.B.2

C. Understand the relationship between numbers and quantities. P.CC.C

3. Say or sign the number names in order when counting, pairing one number word that corresponds with one object, up to at least 10. P.CC.C.3

4. Use the number name of the last object counted to answer "How many?" questions for up to approximately 10 objects. P.CC.C.4

5. Accurately count as many as five objects in a scattered configuration or out of a collection of more than five objects. P.CC.C.5

6. Understand that each successive number name refers to a quantity that is one larger. P.CC.C.6

D. Compare numbers. P.CC.D

7. Identify whether the number of objects in one group is more than, less than or the same as objects in another group for up to at least five objects. P.CC.D.7

8. Identify and use numbers related to order or position from first to fifth. P.CC.D.8

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E. Associate a quantity with written numerals up to 5 and begin to write numbers. P.CC.E

9. Associate a number of objects with a written numeral 0–5. P.CC.E.9

10. Recognize and, with support, write some numerals up to 10. P.CC.E.10

Algebra and Functions AF.2

Operations & Algebraic Thinking

A. Understand addition as adding to and understand subtraction as taking away from. P.OA.A

1. Represent addition and subtraction in different ways, such as with fingers, objects, and drawings. P.OA.A.1

2. Solve addition and subtraction problems set in simple contexts. Add and subtract up to at least five to or from a given number to find a sum or difference up to 10. P.OA.A.2

3. With adult assistance, begin to use counting on (adding 1 or 2, for example) from the larger number for addition. P.OA.A.3

B. Understand simple patterns. P.OA.B

4. Fill in missing elements of simple patterns. P.OA.B.4

5. Duplicate simple patterns in a different location than demonstrated, such as making the same alternating color pattern with blocks at a table that was demonstrated on the rug. Extend patterns, such as making an eight-block tower of the same pattern that was demonstrated with four blocks. P.OA.B.5

6. Identify the core unit of sequentially repeating patterns, such as color in a sequence of alternating red and blue blocks. P.OA.B.6

Data, Statistics, and Probability DSP.3

Measurement & Data

A. Measure objects by their various attributes using standard and nonstandard measurement and use differences in attributes to make comparisons. P.MD.A

1. Use comparative language, such as shortest, heavier, biggest, or later. P.MD.A.1

2. Compare or order up to five objects based on their measurable attributes, such as height or weight. P.MD.A.2

3. Measure using the same unit, such as putting together snap cubes to see how tall a book is. P.MD.A.3

Geometry G.4

Geometry

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A. Identify, describe, compare, and compose shapes. P.G.A

1. Name and describe shapes in terms of length of sides, number of sides, and number of angles/corners. P.G.A.1
2. Correctly name basic shapes (circle, square, rectangle, triangle) regardless of size and orientation. P.G.A.2
3. Analyze, compare, and sort two-and three-dimensional shapes and objects in different sizes. Describe their similarities, differences, and other attributes, such as size and shape. P.G.A.3
4. Compose simple shapes to form larger shapes. P.G.A.4

B. Explore the positions of objects in space. P.G.B

5. Understand and use language related to directionality, order, and the position of objects, including up/down and in front/behind. P.G.B.5
6. Correctly follow directions involving their own position in space, such as "Stand up" and "Move forward." P.G.B.6