



CCPS ELEMENTARY MATHEMATICS

PREKINDERGARTEN

Mathematics education in Calvert County Public Schools strives to build student skills in mathematical reasoning, strategic competence, conceptual understanding, procedural fluency, and a productive disposition. Prekindergarten mathematics instruction is organized into four broad categories as indicated by the *Maryland College and Career-Ready Standards* with much of the content instruction focusing on (1) the Counting and Cardinality skills and (2) developing mathematical vocabulary, such as greater, less, same, different.

Counting and Cardinality

- Know number names and the count sequence to 20
- Identify written numerals 0-10
- Count to tell the number of objects to 10
- Compare groups of objects up to 10

Operations and Algebraic Thinking

- Understand addition as putting together and adding to
- Understand subtraction as taking apart and taking from

Measurement and Data

- Describe and compare measurable attributes such as length or weight
- Sort objects into categories
- Compare categories using words such as greater than, more than, less than, equal to, same

Geometry

- Match like two-dimensional shapes and name the shape regardless of orientation or overall size
- Group shapes by like attributes and distinguish between examples and non-examples of two-dimensional shapes
- Match and sort three-dimensional shapes
- Describe three-dimensional objects using correct vocabulary (cube, sphere, cylinder)

Month-by-Month Pacing Overview

The topics and themes for each month approximate the start of instruction.

MONTH	THEME
Sep	<p><u>Hello, School!</u> Knows that objects, and parts of objects, can be counted Used words to rote count from 1 to 30 Counts up to 10 objects The last number counted indicates the number of objects Recognizes the numbers 0-9</p>
Oct	<p><u>Marvelous Me!</u> Sorts objects by various attributes Recognizes and creates patterns Identifies without counting up to 5 objects (subitizing) Separates up to 10 objects into equal groups Compares heights or lengths of objects</p>
Nov	<p><u>Look Outside</u> Uses ordinal numbers (first, second, third...) Names common shapes Recognizes and creates patterns Uses location words (over, under, next to...)</p>
Dec	<p><u>Taking Care</u> Rote count numbers 1-30 Separates objects into equal groups</p>
Jan	<p><u>Everyday Helpers</u> Uses concrete objects or pictorial models for problems adding up to 5 objects</p>
Feb	<p><u>From Farm to Table</u> Uses concrete models or verbal word problem for subtracting up to 5 objects Groups objects and describe how same/different Collect data and organize in a graphic representation</p>
Mar	<p><u>On the Go!</u> Recognize and create patterns Create shapes Slide, flip, and turn shapes and recognize it is still the same</p>
Apr	<p><u>Animals All Around</u> Compare weights of objects</p>
May	<p><u>Earth, Moon, and Sky</u> Use objects to add up to 5 objects Use language to describe the passing of time</p>