



CCPS ELEMENTARY MATHEMATICS

GRADE 5

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. Grade 5 mathematics instruction is organized into five broad categories as indicated by the *Maryland College and Career-Ready Standards* with much of the content instruction focusing on three critical areas: (1) extending whole number division to 2-digit divisors including division with decimals to the hundredths place value, (2) developing fluency with addition and subtraction of fractions and developing an understanding of the multiplication of fractions and division of fractions limited to unit fractions divided by whole numbers and whole numbers divided by unit fractions), and (3) developing an understanding of volume.

Operations and Algebraic Thinking

- Write and interpret numerical expressions
- Analyze patterns and relationships

Number and Operations in Base Ten

- Understand the place value system
- Perform operations with multi-digit whole numbers and with decimals to hundredths

Number and Operations – Fractions

- Use equivalent fractions as a strategy to add and subtract fractions
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions

Measurement and Data

- Convert like measurement units within a given measurement system
- Represent and interpret data
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition

Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems
- Classify two-dimensional figures based on their properties

Month-by-Month Pacing Overview

The topics listed for each month approximate when instruction in this area will occur.

MONTH	TOPIC
Aug	Introduction to the discourse-driven math classroom
Sep	Understand volume of rectangular prism Multiply multi-digit number
Oct	Divide multi-digit number Understand decimal place value Understand Power of 10
Nov	Read and write Decimals Compare and round decimals Add & subtract decimal values
Dec	Add & subtract fraction values
Jan	Multiply & divide decimal values Understand fractions as division
Feb	Understand multiplication by a fraction Multiply fractions to find area Use multiplication (including fractions) for scaling (size) Understand division with unit fractions
Mar	Solve problems involving division of unit fractions Convert measurement units
Apr	Solve problems involving unit conversions Make line plots and interpret the data Understand and classify two-dimensional figures
May	Evaluate, write, and interpret expressions Represent problems on the coordinate plane Analyze patterns and relationships