

Montville Public Schools
Math Curriculum Overview by Grade Level - Kindergarten
Updated June 2024

Kindergarten: *Part-Part-Total*

In kindergarten, students develop a deep understanding of numbers as they count, compare, compose, and decompose. They learn to make sense of problems as they explore number, shape, and measurement concepts.

Module 1: *Counting and Cardinality*

This module includes counting experiences that integrate the four parts of the number core: number sequence, cardinality, one-to-one correspondence, and written number symbols. Students connect sorting a group into parts and decomposing numbers.

Standards:

K.CC.1 - Count to 100 by ones.
K.CC.3 – Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20.
K.CC.4 – Understand the relationship between numbers and quantities, connect counting to cardinality.
K.CC.5 – Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or circle, or as many as 10 thing in a scattered configuration; given a number

Links to Family Math:

[Grade K Module 1 Topic A](#)
[Grade K Module 1 Topic B](#)
[Grade K Module 1 Topic C](#)
[Grade K Module 1 Topic D](#)
[Grade K Module 1 Topic E](#)
[Grade K Module 1 Topic F](#)
[Grade K Module 1 Topic G](#)

	from 1-20, count out that many objects.	
<p>Module 2: Two- and Three-Dimensional Shapes Students analyze and describe two- and three- dimensional shapes by considering their attributes. This allows students to identify shapes in the world and create their own examples through building and drawing.</p>	<p>Standards: K.G. 1-3 - Identify and describe shapes. K.G. 4-5 - Analyze, compare, create, and compose shapes.</p>	<p>Links to Family Math: Grade K Module 2 Topic A Grade K Module 2 Topic B Grade K Module 2 Topic C</p>
<p>Module 3: Comparison Students describe and compare measurable attributes. Using direct comparison, students compare the length and weight of objects. They develop a toolbox of strategies to compare sets and numbers within 10.</p>	<p>Standards: K.CC. 6-7 - Compare numbers. K.MD. 1 -2 - Describe and compare measurable attributes. K. MD. 3 - Classify objects and count the number of objects in each category.</p>	<p>Links to Family Math: Grade K Module 3 Topic A Grade K Module 3 Topic B Grade K Module 3 Topic C Grade K Module 3 Topic D</p>
<p>Module 4: Composition and Decomposition Students explore part-total relationships as they compose and decompose shapes and numbers in more than one way. They represent the quantities and relationships in story problems with objects, fingers, drawings, and number bonds.</p>	<p>Standards: K.CC. 6-7 - Compare numbers. K.MD. 1-2 - Describe and compare</p>	<p>Links to Family Math: Grade K Module 4 Topic A Grade K Module 4 Topic B Grade K Module 4 Topic C</p>

	<p>measurable attributes.</p> <p>K. MD. 3 - Classify objects and count the number of objects in each category.</p>	
<p>Module 5: Addition and Subtraction Students develop a conceptual understanding of addition and subtraction. They represent situations with number sentences and model story problems in various ways.</p>	<p>Standards:</p> <p>K.CC.2 - Know number names and the count sequence.</p> <p>K.OA.1-5 - Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.</p> <p>K.G.6 - Analyze, compare, create, and compose shapes.</p>	<p>Links to Family Math:</p> <p>Grade K Module 5 Topic A Grade K Module 5 Topic B Grade K Module 5 Topic C Grade K Module 5 Topic D</p>
<p>Module 6: Place Value Foundations Students compose and decompose numbers 11 to 20 as 10 and ones and some more ones in various contexts. As they count to 100 by tens and ones, students explore patterns in the number sequence. This prepares them for continued work with the next ten number system.</p>	<p>Standards:</p> <p>K.CC.1-3 - Know number names and the count sequence.</p> <p>K.CC.4-5 - Count to tell the number of objects.</p>	<p>Links to Family Math:</p> <p>Grade K Module 6 Topic A Grade K Module 6 Topic B Grade K Module 6 Topic C Grade K Module 6 Topic D</p>

	<p>K.CC.6 - Compare numbers.</p> <p>K.OA.2 - Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from</p> <p>K.NBT.1 - Work with numbers 11–19 to gain foundations for place value.</p>	
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