

## Elementary Math 2020-2021: Compressed & Omitted Content

The elementary mathematics curriculum is aligned to the *Maryland College and Career-Ready Standards (Common Core State Standards)*. Content selected during the pandemic-impacted school years are prioritized based on recommendations from the Maryland State Department of Education. The following tables will provide an overview of content by grade level/course that was compressed or omitted for the 2020-2021 school year. Compression means that instruction was minimized to allow for exposure, but not instructed with the depth of understanding the standard demands.

Standards are not taught in isolation. They spiral throughout the year, and are integrated across domains for effective instruction. Due to compression, most standards have not received required prerequisite instruction. As a result, most standards have been introduced, and not taught to the level expected by the standard.

Summer programming will begin to address learning that has been compressed or omitted.

A comprehensive list of the standards can be found here:

- [Maryland College and Career-Ready Standards](#)
- [Common Core State Standards](#)

### Pre-Kindergarten

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Counting & Cardinality	<ul style="list-style-type: none"><li>• Represent numbers to 10 using objects, images, and numerals</li><li>• Numeral writing (<i>omitted</i>)</li><li>• Count to 20</li></ul>
Geometry	N/A
Measurement & Data	<ul style="list-style-type: none"><li>• Describe and compare measurable attributes of weight (<i>omitted</i>)</li></ul>
Operations & Algebraic Thinking	<ul style="list-style-type: none"><li>• Addition story problems using fingers, objects, and drawings (<i>omitted</i>)</li><li>• Subtraction story problems using fingers, objects, and drawings (<i>omitted</i>)</li><li>• Duplicate and extend patterns using concrete objects (<i>omitted</i>)</li></ul>

### Kindergarten

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Counting & Cardinality	<ul style="list-style-type: none"><li>• Numeral writing</li><li>• Comparing numbers</li><li>• Counting across 10s to 100 (with, without objects)</li><li>• Connecting counting to cardinality (pair one object with one number)</li></ul>
Geometry	<ul style="list-style-type: none"><li>• Identify and describe shapes.</li></ul>

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	<ul style="list-style-type: none"> <li>Analyze, compare, create, and compose shapes.</li> <li>Model shapes by building and drawing. <i>(omitted)</i></li> <li>Compose simple shapes to make larger shapes. <i>(omitted)</i></li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>Describe and compare measurable attributes. (i.e. weight) <i>(omitted)</i></li> <li>Make comparisons of volume. <i>(omitted)</i></li> </ul>
Number & Operations in Base Ten	N/A
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.</li> <li>Compose/decompose with 6, 7, 8, 9.</li> </ul>

### Grade One

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>Partition circles and rectangles into fractional parts and use the language of the fractions. <i>(omitted)</i></li> <li>Use two- or three-dimensional shapes to create new shapes. <i>(omitted)</i></li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>Tell and write time in hours and half hours. <i>(omitted)</i></li> <li>Identify pennies, nickels, dimes. <i>(omitted)</i></li> </ul>
Number & Operations in Base Ten	N/A
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>Demonstrate relationship between addition and subtraction.</li> <li>Relate counting to addition and subtraction.</li> <li>Add and subtract within 20, with fluency within 10.</li> <li>Use addition and subtraction within 20 to solve word problems.</li> <li>Understand properties of addition: commutative, associative.</li> </ul>

### Grade Two

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. <i>(omitted)</i></li> <li>Partition circles and rectangles into fractional parts (halves, thirds, fourths).</li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>Measure length using standard tools and measures.</li> <li>Use addition and subtraction within 100 to solve word problems involving lengths.</li> <li>Represent whole numbers, sums, differences from 0 on a number line diagram with equally spaced points.</li> </ul>

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	<ul style="list-style-type: none"> <li>● Represent and interpret data.</li> <li>● Use strategies to make \$1 or make change.</li> <li>● Estimate lengths in standard units.</li> <li>● Measure to compare lengths.</li> </ul>
Number & Operations in Base Ten	<ul style="list-style-type: none"> <li>● Understand three digits of place value (ones, tens, hundreds).</li> <li>● Count within 1000.</li> <li>● Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.</li> <li>● Compare two three-digit numbers. <i>(omitted)</i></li> <li>● Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900. <i>(omitted)</i></li> <li>● Add and subtract within 1000, using concrete models or drawings and strategies.</li> <li>● Explain why addition and subtraction strategies work.</li> <li>● Solve word problems involving making change.</li> </ul>
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>● Work with equal groups of objects to gain foundations for multiplication (i.e. addition in rectangular arrays).</li> </ul>

### Grade Three

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>● Partition shapes into equal parts.</li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>● Tell and write time to the nearest minute and measure time intervals in minutes.</li> <li>● Solve problems involving time to the nearest minute.</li> <li>● Relate area to multiplication and division.</li> <li>● Measure area by counting square units.</li> <li>● Analyze and reason about rectangles.</li> <li>● Apply knowledge of area to a given floor plan. <i>(omitted)</i></li> <li>● Analyze data to problem solve.</li> <li>● Understand the relationship of perimeter and area using line plots. <i>(omitted)</i></li> <li>● Problem solve with area and perimeter. <i>(omitted)</i></li> </ul>
Number & Operations in Base Ten	<ul style="list-style-type: none"> <li>● Use place value to round to 10 or 100.</li> <li>● Fluently add and subtract within 1000.</li> </ul>
Number & Operations - Fractions	<ul style="list-style-type: none"> <li>● Compare two fractions with the same numerator or the same denominator by reasoning about their size.</li> <li>● Equivalent fractions have the same size but not always the same shape.</li> </ul>
Operations & Algebraic	<ul style="list-style-type: none"> <li>● Understand properties of multiplication: commutative, associative, distributive.</li> </ul>

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Thinking	<ul style="list-style-type: none"> <li>● Fluently multiply and divide within 100.</li> <li>● Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.</li> <li>● Determine the unknown whole number in a multiplication or division equation.</li> <li>● Solve two-step word problems using the four operations.</li> </ul>
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### Grade Four

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>● Draw and identify lines and angles, and classify shapes by properties of their lines and angles. (<i>omitted</i>)</li> <li>● Understand concepts of angles and angle measures. (<i>omitted</i>)</li> <li>● Understand angle measures and plane figures. (<i>omitted</i>)</li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>● Measure and sketch angles. (<i>omitted</i>)</li> <li>● Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems. (<i>omitted</i>)</li> </ul>
Number & Operations in Base Ten	<ul style="list-style-type: none"> <li>● Multiply three- and four-digit numbers by one-digit numbers.</li> <li>● Explain remainders using place value understanding and models.</li> <li>● Solve division problems with remainders using the area model.</li> <li>● Explain the connection of the area model of division to the long division algorithm.</li> </ul>
Number & Operations - Fractions	<ul style="list-style-type: none"> <li>● Decompose a fraction into a sum of fractions.</li> <li>● Understand the role of a unit fraction.</li> <li>● Add and subtract mixed numbers with like denominators.</li> <li>● Use equivalent fractions as a strategy to add and subtract fractions.</li> </ul>
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>● Solve multistep word problems using four operations.</li> </ul>

### Math 4/5

*Content in Math 4/5 has been compressed/reduced twice: once to create the compacted course, and a second time to fit within the pandemic school year.*

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	Grade 4 Content <ul style="list-style-type: none"> <li>● Draw and identify lines and angles, and classify shapes by properties of their lines and angles. (<i>omitted</i>)</li> <li>● Understand concepts of angles and angle measures. (<i>omitted</i>)</li> <li>● Understand angle measures and plane figures. (<i>omitted</i>)</li> </ul>
	Grade 5 Content - N/A

## Elementary Math 2020-2021: Compressed & Omitted Content

Measurement & Data	<p>Grade 4 Content</p> <ul style="list-style-type: none"> <li>● Apply area and perimeter formulas for rectangles.</li> <li>● Measure and sketch angles. <i>(omitted)</i></li> <li>● Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems. <i>(omitted)</i></li> <li>● Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals. <i>(omitted)</i></li> <li>● Solve problems involving measurement and conversion of measurements. <i>(omitted)</i></li> </ul>
	Grade 5 Content - N/A
Number & Operations in Base Ten	<p>Grade 4 Content</p> <ul style="list-style-type: none"> <li>● Compare multi-digit whole numbers. <i>(omitted)</i></li> <li>● Round multi-digit whole numbers to any place using real world applications.</li> <li>● Fluently add and subtract multi-digit whole numbers using the standard algorithm.</li> <li>● Multiply three- and four-digit numbers by one-digit numbers.</li> <li>● Explain remainders using place value understanding and models.</li> <li>● Solve division problems with remainders using the area model.</li> <li>● Explain the connection of the area model of division to the long division algorithm.</li> <li>● Transition from partial products multiplication to standard algorithm.</li> </ul>
	<p>Grade 5 Content</p> <ul style="list-style-type: none"> <li>● Reason concretely, pictorially and abstractly using place value understanding.</li> <li>● Round a given decimal using place value understanding and the vertical number line.</li> <li>● Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies.</li> <li>● Perform operations with multi-digit whole numbers and with decimals to hundredths.</li> <li>● Fluently multiply multi-digit whole numbers using the standard algorithm and using estimation to check for reasonableness of the product.</li> <li>● Use basic facts to approximate quotients with two digit divisors.</li> </ul>
Number & Operations - Fractions	<p>Grade 4 Content</p> <ul style="list-style-type: none"> <li>● Decompose a fraction into a sum of fractions.</li> <li>● Decompose fractions using tape diagrams.</li> <li>● Understand the role of a unit fraction.</li> <li>● Use a visual fraction model (i.e. to explain equivalence or to show an area model).</li> <li>● Compare two fractions with different numerators and different denominators.</li> <li>● Understand addition and subtraction of fractions as joining and separating parts from the same whole.</li> </ul>

## Elementary Math 2020-2021: Compressed & Omitted Content

	<ul style="list-style-type: none"> <li>● Add and subtract mixed numbers with like denominators.</li> <li>● Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>● Solve word problems using addition and subtraction of fractions.</li> <li>● Represent multiplication of fractions using the associative property and visual models.</li> <li>● Find the product of a whole number and a mixed number using the distributive property.</li> </ul>
	<p>Grade 5 Content</p> <ul style="list-style-type: none"> <li>● Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>● Add fractions to and subtract fractions from whole numbers using equivalence and the number line (increasing value to sums greater than 2).</li> <li>● Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. <i>(omitted)</i></li> </ul>
Operations & Algebraic Thinking	<p>Grade 4 Content</p> <ul style="list-style-type: none"> <li>● Solve multistep word problems using four operations and tape diagrams.</li> <li>● Create multi step word problems from given tape diagrams and equations.</li> <li>● Assess reasonableness of answers to multi step word problems.</li> <li>● Interpret a multiplication equation as a comparison.</li> <li>● Multiply or divide to solve word problems involving multiplicative comparison.</li> <li>● Explore properties of prime and composite numbers. <i>(omitted)</i></li> <li>● Interpret division word problems as either number of groups unknown or group size unknown. <i>(omitted)</i></li> </ul>
	Grade 5 Content - N/A

### Grade Five

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>● Draw and identify two dimensional figures from given attributes.</li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>● Apply concepts and formulas of volume.</li> </ul>
Number & Operations in Base Ten	<ul style="list-style-type: none"> <li>● Read and write decimals to thousandths.</li> <li>● Add, subtract, multiply, and divide decimals to hundredths.</li> <li>● Relationship of methods of multiplication (area models, distributive property, partial products).</li> </ul>
Number & Operations - Fractions	<ul style="list-style-type: none"> <li>● Explore part-to-whole relationships.</li> <li>● Solve word problems involving addition and subtraction of fractions (including cases of unlike denominators).</li> <li>● When multiplying by a fraction, being able to explain the size of the</li> </ul>

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	<ul style="list-style-type: none"> <li>product. <i>(omitted)</i></li> <li>Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.</li> </ul>
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>Graph on the coordinate plane. <i>(omitted)</i></li> <li>Write and interpret numerical expressions.</li> <li>Write simple expressions that record calculations with numbers.</li> <li>Analyze patterns and relationships (i.e. generate two patterns using given rules).</li> </ul>

### Math 5/6 - Grade 5 Content

*Please note: content in Math 5/6 has been compressed/reduced twice. Once to create the compacted course, and a second time to fit within the pandemic school year.*

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Geometry	<ul style="list-style-type: none"> <li>Classify two-dimensional figures in a hierarchy based on properties. <i>(omitted)</i></li> <li>Graph points on the coordinate plane to solve real-world and mathematical problems.</li> <li>Construct and analyze parallel lines and segments.</li> </ul>
Measurement & Data	<ul style="list-style-type: none"> <li>Make a line plot to display a data set of measurements in fractions of a unit (<math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{8}</math>). Use operations on fractions for this grade to solve problems involving information presented in line plots. <i>(omitted)</i></li> <li>Convert like measurement units within a given measurement system. <i>(omitted)</i></li> <li>Understand concepts of volume. (i.e. cubic units)</li> <li>Measure volume.</li> <li>Use multiplication to calculate volume.</li> <li>Apply concepts and formulas of volume to create object or sculpture. <i>(omitted)</i></li> </ul>
Number & Operations in Base Ten	<ul style="list-style-type: none"> <li>Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies.</li> <li>Divide decimal dividends by non-unit decimal divisors.</li> </ul>
Number & Operations - Fractions	<ul style="list-style-type: none"> <li>Interpret a fraction as division.</li> <li>Use tape diagrams to model fractions as division. <i>(omitted)</i></li> <li>Solve real world problems involving multiplication of fractions and mixed numbers.</li> <li>Multiply unit and non-unit fractions.</li> <li>Relate decimal and fraction multiplication.</li> <li>Interpret multiplication as scaling/resizing.</li> <li>Write equations and word problems corresponding to tape and number line diagrams.</li> <li>Create story contexts for numerical expressions and tape diagrams, and solve word problems.</li> <li>Find the area of a rectangle with a fractional side.</li> <li>Make sense of complex, multi-step problems, and persevere in solving</li> </ul>

## Elementary Math 2020-2021: Compressed & Omitted Content

	them. Share and critique peer solutions. <i>(omitted)</i>
Operations & Algebraic Thinking	<ul style="list-style-type: none"> <li>● Analyze number patterns created from mixed operations. <i>(omitted)</i></li> <li>● Create a rule to generate a number pattern, and plot the points. <i>(omitted)</i></li> </ul>

### Math 5/6 - Grade 6 Content

*Please note: content in Math 5/6 has been compressed/reduced twice. Once to create the compacted course, and a second time to fit within the pandemic school year.*

Domain	Content Compressed (unless noted as <i>Omitted</i> )
Expressions & Equations	<ul style="list-style-type: none"> <li>● Write, read, and evaluate expressions in which letters stand for numbers.</li> <li>● Identify when two expressions are equivalent.</li> <li>● Writing division expressions.</li> <li>● Reason about and solve one-variable equations and inequalities.</li> <li>● Write and evaluate multiplication and addition expressions.</li> <li>● Use variables to represent numbers and write expressions when solving a real-world or mathematical problem.</li> </ul>
Geometry	<ul style="list-style-type: none"> <li>● Solve real-world and mathematical problems involving area, surface area, and volume. <i>(omitted)</i></li> <li>● Find the area of right triangles, other triangles, special quadrilaterals, and polygons and apply to real-world problems. <i>(omitted)</i></li> <li>● Find the volume of a right rectangular prism with fractional edge lengths. <i>(omitted)</i></li> <li>● Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. <i>(omitted)</i></li> <li>● Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. <i>(omitted)</i></li> </ul>
Number System	<ul style="list-style-type: none"> <li>● Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions.</li> <li>● Fluently divide multi-digit numbers using the standard algorithm.</li> <li>● Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.</li> <li>● Apply divisibility rules. <i>(omitted)</i></li> <li>● Understand that positive and negative numbers are used together to describe quantities having opposite directions or values.</li> <li>● Understand a rational number as a point on the number line (expanded to include negative numbers).</li> <li>● Understand ordering and absolute value of rational numbers.</li> <li>● Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane.</li> </ul>
Ratios & Proportional	<ul style="list-style-type: none"> <li>● Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.</li> </ul>



## Elementary Math 2020-2021: Compressed & Omitted Content

Relationships	<ul style="list-style-type: none"><li>● Use ratio and rate reasoning to solve real-world and mathematical problems.</li><li>● Analyze different unit rates given in words, tables, equations, and graphs.</li><li>● Solve unit rate problems including those involving unit pricing and constant speed.</li><li>● Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</li></ul>
Statistics & Probability	<ul style="list-style-type: none"><li>● Develop understanding of statistical variability. <i>(omitted)</i></li><li>● Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape. <i>(omitted)</i></li><li>● Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. <i>(omitted)</i></li><li>● Display numerical data in plots on a number line, including dot plots, histograms, and box plots. <i>(omitted)</i></li><li>● Summarize numerical data sets in relation to their context. <i>(omitted)</i></li></ul>