## EUREKA MATH<sup>™</sup>

ALIGNEDTeachers and students using Eureka Math find the trademark "Aha!" moments in Eureka Math to be a source of joy and inspiration, lesson after lesson, year after year.ALIGNEDEureka Math is the only curriculum found by EdReports.org to align fully with the Common Core State Standards for Mathematics for all grades, Kindergarten through Grade 8. Great Minds offers detailed analyses which demonstrate how each grade of Eureka Math aligns with specific state standards. Access these free alignment studies at greatminds.org/state-studies.DATASchools and districts nationwide are experiencing student growth and impressive test scores after using Eureka Math. See their stories and data at greatminds.org/data.FULL SUITE OF RESOURCESAs a nonprofit, Great Minds offers the Eureka Math curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at greatminds.org/math/curriculum.The teacher–writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following: 	ABOUT EUREKA MATH	Created by the nonprofit Great Minds, <i>Eureka Math</i> helps teachers deliver unparalleled math instruction that provides students with a deep understanding and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus—a principle tested and proven to be essential in students' mastery of math.		
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• Parent resources

# South Carolina College- and Career-Ready Standards for Mathematics Correlation to *Eureka Math*™

### **GRADE 5 MATHEMATICS**

The majority of the Grade 5 South Carolina College- and Career-Ready Standards for Mathematics are fully covered by the Grade 5 *Eureka Math* curriculum. The primary area where the Grade 5 South Carolina College- and Career-Ready Standards for Mathematics and Grade 5 *Eureka Math* do not align is in the key concept of Measurement and Data Analysis. One standard from this key concept will require the use of *Eureka Math* content from another grade level. A detailed analysis of alignment is provided in the table below.

#### **INDICATORS**

Green indicates that the South Carolina standard is fully addressed in *Eureka Math*.

Yellow indicates that the South Carolina standard may not be completely addressed in *Eureka Math*.

Red indicates that the South Carolina standard is not addressed in *Eureka Math*.

Blue indicates there is a discrepancy between the grade level at which this standard is addressed in the South Carolina standards and in *Eureka Math*.

Mathematical Process Standards	Aligned Components of Eureka Math
<ul> <li>1: Make sense of problems and persevere in solving them.</li> <li>a. Relate a problem to prior knowledge.</li> <li>b. Recognize there may be multiple entry points to a problem and more than one path to a solution.</li> </ul>	Lessons in every module engage students in making sense of problems and persevering in solving them as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 1, which is specifically addressed in the following modules:
c. Analyze what is given, what is not given, what is being asked, and what strategies are needed, and make an initial attempt to solve a problem.	G5 M2: Multi-Digit Whole Number and Decimal Fraction Operations
d. Evaluate the success of an approach to solve a problem and refine it if necessary.	G5 M3: Addition and Subtraction of Fractions
	G5 M5: Addition and Multiplication with Volume and Area
	G5 M6: Problem Solving with the Coordinate Plane
<ul> <li>2: Reason both contextually and abstractly.</li> <li>a. Make sense of quantities and their relationships in mathematical and real-world situations.</li> <li>b. Describe a given situation using multiple methematical</li> </ul>	Lessons in every module engage students in reasoning abstractly and quantitatively as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 2, which is specifically addressed in the
representations.	following modules:
c. Translate among multiple mathematical representations and compare the meanings each representation conveys about the situation.	G5 M2: Multi-Digit Whole Number and Decimal Fraction Operations
d. Connect the meaning of mathematical operations to the context of a given situation.	G5 M4: Multiplication and Division of Fractions and Decimal Fractions
	G5 M5: Addition and Multiplication with Volume and Area
	G5 M6: Problem Solving with the Coordinate Plane

Mathematical Process Standards	Aligned Components of Eureka Math
<ul> <li>3: Use critical thinking skills to justify mathematical reasoning and critique the reasoning of others.</li> <li>a. Construct and justify a solution to a problem.</li> <li>b. Compare and discuss the validity of various reasoning strategies.</li> <li>c. Make conjectures and explore their validity.</li> <li>d. Reflect on and provide thoughtful responses to the reasoning of others.</li> </ul>	<ul> <li>Lessons in every module engage students in constructing viable arguments and critiquing the reasoning of others as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 3, which is specifically addressed in the following modules:</li> <li>G5 M3: Addition and Subtraction of Fractions</li> <li>G5 M4: Multiplication and Division of Fractions and Decimal Fractions</li> <li>G5 M5: Addition and Multiplication with Volume and Area</li> <li>G5 M6: Problem Solving with the Coordinate Plane</li> </ul>
<ul> <li>4: Connect mathematical ideas and real-world situations through modeling.</li> <li>a. Identify relevant quantities and develop a model to describe their relationships.</li> <li>b. Interpret mathematical models in the context of the situation.</li> <li>c. Make assumptions and estimates to simplify complicated situations.</li> <li>d. Evaluate the reasonableness of a model and refine if necessary.</li> </ul>	Lessons in every module engage students in modeling with mathematics as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 4, which is specifically addressed in the following modules: G5 M4: Multiplication and Division of Fractions and Decimal Fractions G5 M5: Addition and Multiplication with Volume and Area

Mathematical Process Standards	Aligned Components of Eureka Math
<ul> <li>5: Use a variety of mathematical tools effectively and strategically.</li> <li>a. Select and use appropriate tools when solving a mathematical problem.</li> <li>b. Use technological tools and other external mathematical resources to explore and deepen understanding of concepts.</li> </ul>	Lessons in every module engage students in using appropriate tools strategically as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 5, which is specifically addressed in the following modules: G5 M3: Addition and Subtraction of Fractions
	G5 M4: Multiplication and Division of Fractions and Decimal Fractions
<ul> <li>6: Communicate mathematically and approach mathematical situations with precision.</li> <li>a. Express numerical answers with the degree of precision appropriate for the context of a situation.</li> <li>b. Represent numbers in an appropriate form according to the context of the situation.</li> </ul>	Lessons in every module engage students in attending to precision as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 6, which is specifically addressed in the following modules:
c. Use appropriate and precise mathematical language. d. Use appropriate units, scales, and labels.	G5 M1: Place Value and Decimal Fractions G5 M5: Addition and Multiplication with Volume and Area G5 M6: Problem Solving with the Coordinate Plane

Mathematical Process Standards	Aligned Components of Eureka Math
<ul> <li>7: Identify and utilize structure and patterns.</li> <li>a. Recognize complex mathematical objects as being composed of more than one simple object.</li> <li>b. Recognize mathematical repetition in order to make generalizations.</li> </ul>	Lessons in every module engage students in looking for and making use of structure as required by this standard. This process standard is analogous to the CCSSM Standards for Mathematical Practice 7 and 8, which are specifically addressed in the following modules:
c. Look for structures to interpret meaning and develop solution strategies.	<ul> <li>G5 M1: Place Value and Decimal Fractions</li> <li>G5 M2: Multi-Digit Whole Number and Decimal Fraction Operations</li> <li>G5 M3: Addition and Subtraction of Fractions</li> <li>G5 M4: Multiplication and Division of Fractions and Decimal Fractions</li> <li>G5 M5: Addition and Multiplication with Volume and Area</li> <li>G5 M6: Problem Solving with the Coordinate Plane</li> </ul>

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
Number Sense and Base Ten	<b>5.NSBT.1</b> Understand that, in a multi-digit whole number, a digit in one place represents 10 times what the same digit represents in the place to its right, and represents 1/10 times what the same digit represents in the place to its left.	G5 M1 Topic A: Multiplicative Patterns on the Place Value ChartG5 M2 Topic A: Mental Strategies for Multi-Digit Whole Number MultiplicationG5 M2 Lesson 16: Use divide by 10 patterns for multi-digit whole number division.
	<b>5.NSBT.2</b> Use whole number exponents to explain:	
	a. patterns in the number of zeroes of the product when multiplying a number by powers of 10;	G5 M1 Topic A: Multiplicative Patterns on the Place Value Chart G5 M1 Topic E: Multiplying Decimals G5 M2 Topic A: Mental Strategies for Multi-Digit Whole
		Number Multiplication

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Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	b. patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	<ul> <li>G5 M1 Topic A: Multiplicative Patterns on the Place Value Chart</li> <li>G5 M1 Topic E: Multiplying Decimals</li> <li>G5 M2 Topic A: Mental Strategies for Multi-Digit Whole Number Multiplication</li> <li>G5 M2 Lesson 16: Use <i>divide by 10</i> patterns for multi-digit whole number division.</li> <li>G5 M2 Lesson 24: Divide decimal dividends by multiples of 10, reasoning about the placement of the decimal point, and making connections to a written method.</li> </ul>
	<b>5.NSBT.3</b> Read and write decimals in standard and expanded form. Compare two decimal numbers to the thousandths using the symbols >, =, or <.	G5 M1: Place Value and Decimal Fractions
	<b>5.NSBT.4</b> Round decimals to any given place value within thousandths.	G5 M1 Topic C: Place Value and Rounding Decimal Fractions
	<b>5.NSBT.5</b> Fluently multiply multi-digit whole numbers using strategies to include a standard algorithm.	<ul><li>G5 M2 Topic B: The Standard Algorithm for Multi-Digit Whole Number Multiplication</li><li>G5 M2 Topic D: Measurement Word Problems with Whole Number and Decimal Multiplication</li></ul>

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	<b>5.NSBT.6</b> Divide up to a four-digit dividend by a two- digit divisor, using strategies based on place value, the properties of operations, and the relationship between multiplication and division.	<ul> <li>G5 M2 Topic E: Mental Strategies for Multi-Digit Whole Number Division</li> <li>G5 M2 Topic F: Partial Quotients and Multi-Digit Whole Number Division</li> <li>G5 M2 Topic H: Measurement Word Problems with Multi- Digit Division</li> </ul>
	<b>5.NSBT.7</b> Add, subtract, multiply, and divide decimal numbers to hundredths using concrete area models and drawings.	<ul> <li>G5 M1: Place Value and Decimal Fractions</li> <li>G5 M2: Multi-Digit Whole Number and Decimal Fraction Operations</li> <li>G5 M4 Lessons 17–18: Relate decimal and fraction multiplication.</li> <li>G5 M4 Lesson 29: Connect division by a unit fraction to division by 1 tenth and 1 hundredth.</li> <li>G5 M4 Lessons 30–31: Divide decimal dividends by non-unit decimal divisors.</li> </ul>
Number Sense and Operations— Fractions	<b>5.NSF.1</b> Add and subtract fractions with unlike denominators (including mixed numbers) using a variety of models, including an area model and number line.	G5 M3: Addition and Subtraction of Fractions

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	5.NSF.2	G5 M3 Lesson 7: Solve two-step word problems.
	Solve real-world problems involving addition and subtraction of fractions with unlike denominators.	G5 M3 Lesson 9: Add fractions making like units numerically.
		G5 M3 Topic D: Further Applications
	5.NSF.3	G5 M4 Topic B: Fractions as Division
	Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., $a/b = a \div b$ ).	
	5.NSF.4	
	Extend the concept of multiplication to multiply a fraction or whole number by a fraction.	
	a. Recognize the relationship between multiplying fractions and finding the areas of rectangles with fractional side lengths;	G5 M5 Topic C: Area of Rectangular Figures with Fractional Side Lengths
	b. Interpret multiplication of a fraction by a whole number and a whole number by a fraction and compute the product;	G5 M4 Topic C: Multiplication of a Whole Number by a Fraction
		G5 M4 Lesson 10: Compare and evaluate expressions with parentheses.
		G5 M4 Topic E: Multiplication of a Fraction by a Fraction
		G5 M4 Topic H: Interpretation of Numerical Expressions

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	c. Interpret multiplication in which both factors are fractions less than one and compute the product.	G5 M2 Lesson 14: Use fraction and decimal multiplication to express equivalent measurements. G5 M4: Multiplication and Division of Fractions and Decimal Fractions G5 M5 Lessons 14–15: Solve real-world problems involving area of figures with fractional side lengths using visual models
		and/or equations.
	<b>5.NSF.5</b> Justify the reasonableness of a product when multiplying with fractions.	
	a. Estimate the size of the product based on the size of the two factors;	G5 M4 Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems
	<ul> <li>b. Explain why multiplying a given number by a number greater than 1 (e.g., improper fractions, mixed numbers, whole numbers) results in a product larger than the given number;</li> </ul>	G5 M4 Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems
	c. Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number;	G5 M4 Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems
	d. Explain why multiplying the numerator and denominator by the same number has the same effect as multiplying the fraction by 1.	G5 M4 Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems

<b>Key Concepts</b>	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	5.NSF.6	G5 M4 Topic D: Fraction Expressions and Word Problems
	Solve real-world problems involving multiplication of a fraction by a fraction, improper fraction, and a mixed number.	G5 M4 Lesson 16: Solve word problems using tape diagrams and fraction-by-fraction multiplication.
		G5 M4 Lesson 24: Solve word problems using fraction and decimal multiplication.
		G5 M5 Lessons 14–15: Solve real-world problems involving area of figures with fractional side lengths using visual models and/or equations.
	5.NSF.7	
	Extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations.	
	a. Interpret division of a unit fraction by a non-zero whole number and compute the quotient;	G5 M4 Lesson 26: Divide a unit fraction by a whole number.
	b. Interpret division of a whole number by a unit fraction and compute the quotient.	G5 M4 Lesson 25: Divide a whole number by a unit fraction.
	5.NSF.8	G5 M4 Lesson 27: Solve problems involving fraction division.
	Solve real-world problems involving division of unit fractions and whole numbers, using visual fraction models and equations.	G5 M4 Lesson 28: Write equations and word problems corresponding to tape and number line diagrams.
		G5 M4 Topic H: Interpretation of Numerical Expressions

Key Concepts	Content Standards for Mathematics	Anglieu Components of Eureka Math
Algebraic Thinking and Operations	<b>5.ATO.1</b> Evaluate numerical expressions involving grouping symbols (i.e., parentheses, brackets, braces).	<ul> <li>G5 M2 Lesson 3: Write and interpret numerical expressions, and compare expressions using a visual model.</li> <li>G5 M2 Lesson 4: Convert numerical expressions into unit form as a mental strategy for multi-digit multiplication.</li> <li>G5 M4 Lesson 10: Compare and evaluate expressions with parentheses.</li> <li>G5 M4 Topic H: Interpretation of Numerical Expressions</li> </ul>
	<b>5.ATO.2</b> Translate verbal phrases into numerical expressions and interpret numerical expressions as verbal phrases.	<ul> <li>G5 M2 Lesson 3: Write and interpret numerical expressions, and compare expressions using a visual model.</li> <li>G5 M2 Lesson 4: Convert numerical expressions into unit form as a mental strategy for multi-digit multiplication.</li> <li>G5 M4 Lesson 10: Compare and evaluate expressions with parentheses.</li> <li>G5 M4 Topic H: Interpretation of Numerical Expressions</li> <li>G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules</li> </ul>

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	<b>5.ATO.3</b> Investigate the relationship between two numerical patterns.	
	a. Generate two numerical patterns given two rules and organize in tables;	G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules
		G5 M6 Lesson 18: Draw symmetric figures on the coordinate plane.
	b. Translate the two numerical patterns into two sets of ordered pairs;	G5 M6: Problem Solving with the Coordinate Plane
	c. Graph the two sets of ordered pairs on the same coordinate plane;	G5 M6: Problem Solving with the Coordinate Plane
	d. Identify the relationship between the two numerical patterns.	G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules
		G5 M6 Lesson 18: Draw symmetric figures on the coordinate plane.
Geometry	<b>5.G.1</b> Define a coordinate system.	
	a. The <i>x</i> - and <i>y</i> -axes are perpendicular number lines that intersect at 0 (the origin);	G5 M6 Topic A: Coordinate Systems
	b. Any point on the coordinate plane can be represented by its coordinates;	G5 M6 Topic A: Coordinate Systems

<b>Key Concepts</b>	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	c. The first number in an ordered pair is the <i>x</i> -coordinate and represents the horizontal distance from the origin;	<ul> <li>G5 M6 Topic A: Coordinate Systems</li> <li>G5 M6 Lesson 7: Plot points, use them to draw lines in the plane, and describe patterns within the coordinate pairs.</li> <li>G5 M6 Lesson 12: Create a rule to generate a number pattern, and plot the points.</li> <li>G5 M6 Lesson 14: Construct parallel line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Lesson 16: Construct perpendicular line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Lesson 16: Construct perpendicular line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Topic D: Problem Solving in the Coordinate Plane</li> </ul>
	d. The second number in an ordered pair is the <i>y</i> -coordinate and represents the vertical distance from the origin.	<ul> <li>G5 M6 Topic A: Coordinate Systems</li> <li>G5 M6 Lesson 7: Plot points, use them to draw lines in the plane, and describe patterns within the coordinate pairs.</li> <li>G5 M6 Lesson 12: Create a rule to generate a number pattern, and plot the points.</li> <li>G5 M6 Lesson 14: Construct parallel line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Lesson 16: Construct perpendicular line segments, and analyze relationships of the coordinate pairs.</li> </ul>

Key Concepts	<b>Content Standards for Mathematics</b>	Aligned Components of Eureka Math
	<b>5.G.2</b> Plot and interpret points in the first quadrant of the coordinate plane to represent real-world and mathematical situations.	<ul> <li>G5 M6 Lesson 14: Construct parallel line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Lesson 16: Construct perpendicular line segments, and analyze relationships of the coordinate pairs.</li> <li>G5 M6 Topic D: Problem Solving in the Coordinate Plane</li> </ul>
	<b>5.G.3</b> Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	G5 M5 Topic D: Drawing, Analysis, and Classification of Two- Dimensional Shapes
<b>5.G.4</b> Classify based o	<b>5.G.4</b> Classify two-dimensional figures in a hierarchy based on their attributes.	<ul> <li>G5 M5 Lesson 20: Classify two-dimensional figures in a hierarchy based on properties.</li> <li>G5 M5 Lesson 21: Draw and identify varied two-dimensional figures from given attributes.</li> </ul>
Measurement and Data Analysis	<b>5.MDA.1</b> Convert measurements within a single system of measurement: customary (i.e., in., ft., yd., oz., lb., sec., min., hr.) or metric (i.e., mm, cm, m, km, g, kg, mL, L) from a larger to a smaller unit and a smaller to a larger unit.	<ul> <li>G5 M1 Lesson 4: Use exponents to denote powers of 10 with application to metric conversions.</li> <li>G5 M2 Topic D: Measurement Word Problems with Whole Number and Decimal Multiplication</li> <li>G5 M4 Topic C: Fraction Expressions and Word Problems</li> <li>G5 M4 Lesson 19: Convert measures involving whole numbers, and solve multi-step word problems.</li> <li>G5 M4 Lesson 20: Convert mixed unit measurements, and solve multi-step word problems.</li> </ul>

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	<b>5.MDA.2</b> Create a line plot consisting of unit fractions and use operations on fractions to solve problems related to the line plot.	G5 M4 Topic A: Line Plots of Fraction Measurements
	<b>5.MDA.3</b> Understand the concept of volume measurement.	
	a. Recognize volume as an attribute of right rectangular prisms;	G5 M5 Lesson 2: Find the volume of a right rectangular prism by packing with cubic units and counting.
	b. Relate volume measurement to the operations of multiplication and addition by packing right rectangular prisms and then counting the layers of standard unit cubes;	G5 M5 Lesson 3: Compose and decompose right rectangular prisms using layers. G5 M5 Topic B: Volume and the Operations of Multiplication and Addition
	c. Determine the volume of right rectangular prisms using the formula derived from packing right rectangular prisms and counting the layers of standard unit cubes.	<ul> <li>G5 M5 Lesson 3: Compose and decompose right rectangular prisms using layers.</li> <li>G5 M5 Lesson 4: Use multiplication to calculate volume.</li> <li>G5 M5 Lesson 5: Use multiplication to connect volume as <i>packing</i> with volume as <i>filling</i>.</li> </ul>
	<b>5.MDA.4</b> Differentiate among perimeter, area, and volume and identify which application is appropriate for a given situation.	G4 M3 Topic A: Multiplicative Comparison Word Problems G5 M5: Addition and Multiplication with Volume and Area

#### Key Concepts Content Standards for Mathematics

#### Aligned Components of Eureka Math