



# Grade 5 | South Carolina College and Career Ready Standards for Mathematics Correlation to *Eureka Math*<sup>2TM</sup>

When the original *Eureka Math*® curriculum was released, it quickly became the most widely used K-5 mathematics curriculum in the country. Now, the Great Minds® teacher-writers have created *Eureka Math*<sup>2™</sup>, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math*<sup>2</sup> carefully sequences mathematical content to maximize vertical alignment—a principle tested and proven to be essential in students' mastery of math—from kindergarten through high school.

While this innovative new curriculum includes all the trademark Eureka Math aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

#### **Teachability**

Eureka Math<sup>2</sup> employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering high-quality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

#### **Accessibility**

Eureka Math² incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the Teach book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the Eureka Math² teacher-writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

#### **Digital Engagement**

The digital elements of *Eureka Math*<sup>2</sup> add to students' engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

### **Standards for Mathematical Practice**

### Aligned Components of Eureka Math<sup>2</sup>

MP.1  Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.2 Reason abstractly and quantitatively.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.3  Construct viable arguments and critique the reasoning of others.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.4 Model with mathematics.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.5 Use appropriate tools strategically.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.6 Attend to precision.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.7 Look for and make use of structure.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.
MP.8  Look for and express regularity in repeated reasoning.	Lessons in every module engage students in mathematical practices.  These are indicated in margin notes included with every lesson.

#### **Number Sense and Base Ten**

#### **5.NSBT Number Sense and Base Ten**

## South Carolina College and Career Ready Standards for Mathematics

### Aligned Components of Eureka Math<sup>2</sup>

5.NSBT.1	5 M1 Lesson 1: Relate adjacent place value units by using place value understanding.
Understand that, in a multi-digit whole number, a digit in one place represents	5 M1 Lesson 2: Multiply and divide by $10$ , $100$ , and $1{,}000$ and identify patterns in the products and quotients.
10 times what the same digit represents	5 M4 Lesson 1: Model and relate decimal place value units to thousandths.
in the place to its right, and represents $\frac{1}{10}$ times what the same digit represents	5 M4 Lesson 2: Represent thousandths as a place value unit.
in the place to its left.	5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.
	5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.
5.NSBT.2	This standard is fully addressed by the lessons aligned to its subsections.
Use whole number exponents to explain:	
5.NSBT.2.a	5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products
patterns in the number of zeroes of the product when multiplying a number by powers of 10;	and quotients.
	5 M1 Lesson 3: Use exponents to multiply and divide by powers of $10$ .
	5 M1 Lesson 4: Estimate products and quotients by using powers of $10$ and their multiples.
	5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.
5.NSBT.2.b	5 M1 Lesson 2: Multiply and divide by $10$ , $100$ , and $1{,}000$ and identify patterns in the products
patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of $10$ .	and quotients.
	5 M1 Lesson 3: Use exponents to multiply and divide by powers of 10.
	5 M1 Lesson 4: Estimate products and quotients by using powers of $10$ and their multiples.
	5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.

### Aligned Components of Eureka Math<sup>2</sup>

5.NSBT.3  Read and write decimals in standard and expanded form. Compare two decimal numbers to the thousandths using the symbols >, =, or <.  5.NSBT.4  Round decimals to any given place value with thousandths.  5.NSBT.5  Fluently multiply multi-digit whole numbers using strategies to include a standard algorithm.  5.NSBT.6  Divide up to a four-digit divisor, using strategies based on place value, the properties of operations, and the relationship between multiplication and division.  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundredth using expected with thousand ths using strategies to include a contained the subject of Decimal Numbers  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundred the subject of Decimal Numbers  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundred the subject of Decimal Numbers  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundred the subject of Decimal Numbers  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundred the subject of Decimal Numbers  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to the thousandths as a place value unit.  5.M4 Lesson 3: Represent thousandths as a place value unit.  5.M4 Lesson 6: Compare decimal numbers to the thousandths.  5.M4 Lesson 6: Compare decimal numbers to the thousandths.  5.M4 Lesson 6: Compare decimal numbers to the thousandths.  5.M4 Lesson 7: Round decimal numbers to the thousandths.  5.M4 Lesson 7: Round decimal numbers to the housandths.  5.M4 Lesson 7: Round decimal numbers to the housandths.  5.M4 Lesson 7: Round decimal numbers to the housandths.  5.M4 Lesson 8: Round decimal numbers to the housandths.  5.M4 Lesson 8: Round decimal numbers to the housandths.  5.M4 Lesson 8: Round decimal numbers to the housandths.  5.M4 Lesson 8: Round decimal numbers to the housandths.  5.M4 Lesson 7: Round decimal numb		
expanded form. Compare two decimal numbers to the thousandths using the symbols >, =, or <.  5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms. 5 M4 Lesson 6: Compare decimal numbers to the thousandths place.  5 M5 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M6 Lesson 8: Round decimal numbers to any place value unit.  5 M6 Lesson 8: Round decimal numbers to any place value unit.  5 M7 Lesson 8: Round decimal numbers to any place value unit.  5 M8 Lesson 8: Round decimal numbers  5	5.NSBT.3	5 M4 Lesson 1: Model and relate decimal place value units to thousandths.
numbers to the thousandths using the symbols >, =, or <.  5 M4 Lesson 6: Compare decimal numbers to the thousandths place.  5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers  5 M4 Lesson 8: Round decimal numbers  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers  5 M4 Lesson 8: Round decimal numbers  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth.  5 M4 Lesson 8: Round decimal	Read and write decimals in standard and	5 M4 Lesson 2: Represent thousandths as a place value unit.
5.NSBT.4  Sound decimals to any given place value within thousandths.  5.M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.  5.M4 Lesson 8: Round decimal numbers to any place value unit.  5.M5 Lesson 8: Round decimal numbers to any place value unit.  5.M6 Lesson 8: Round decimal numbers to any place value unit.  5.M7 Lesson 8: Round decimal numbers to any place value unit.  5.M8 Lesson 8: Round decimal numbers  5.M8 Topic B: Multiplication of Whole Numbers  5.M8 Topic C: Division of Whole Numbers  5.M8 Topic C: Division of Whole Numbers  5.M8 Topic B: Addition and Subtraction of Decimal Numbers  5.M8 Topic C: Multiplication of Decimal Numbers  5.M8 Topic D: Division of Decimal Numbers	·	5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.
Round decimals to any given place value within thousandths.  5 M4 Lesson 8: Round decimal numbers to any place value unit.  5 NSBT.5  Fluently multiply multi-digit whole numbers using strategies to include a standard algorithm.  5 NSBT.6  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.  5 M4 Topic B: Multiplication of Whole Numbers  5 M4 Topic B: Addition and Subtraction of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	_	5 M4 Lesson 6: Compare decimal numbers to the thousandths place.
within thousandths.  5.NSBT.5  Fluently multiply multi-digit whole numbers using strategies to include a standard algorithm.  5.NSBT.6  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.  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundredths using  5 M1 Topic B: Multiplication of Whole Numbers  5 M4 Topic B: Addition and Subtraction of Decimal Numbers  5 M4 Topic C: Multiplication of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	5.NSBT.4	5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.
Fluently multiply multi-digit whole numbers using strategies to include a standard algorithm.  5.NSBT.6  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.  5.NSBT.7  Add, subtract, multiply, and divide decimal numbers to hundredths using  5.M4 Topic D: Division of Decimal Numbers  5.M4 Topic D: Division of Decimal Numbers	, •	5 M4 Lesson 8: Round decimal numbers to any place value unit.
numbers using strategies to include a standard algorithm.  5.NSBT.6  5 M1 Topic C: Division of Whole Numbers  5 M1 Topic C: Division of Whole Numbers  5 M1 Topic C: Division of Whole Numbers  5 M1 Topic D: Division of Whole Numbers  5 M2 Topic B: Addition and Subtraction of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	5.NSBT.5	5 M1 Topic B: Multiplication of Whole Numbers
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.  5.NSBT.7  5 M4 Topic B: Addition and Subtraction of Decimal Numbers  5 M4 Topic C: Multiplication of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	numbers using strategies to include	
by a two-digit divisor, using strategies based on place value, the properties of operations, and the relationship between multiplication and division.  5.NSBT.7  5 M4 Topic B: Addition and Subtraction of Decimal Numbers  Add, subtract, multiply, and divide decimal numbers to hundredths using  5 M4 Topic C: Multiplication of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	5.NSBT.6	5 M1 Topic C: Division of Whole Numbers
Add, subtract, multiply, and divide decimal numbers to hundredths using  5 M4 Topic C: Multiplication of Decimal Numbers  5 M4 Topic D: Division of Decimal Numbers	by a two-digit divisor, using strategies based on place value, the properties of operations, and the relationship	
decimal numbers to hundredths using  5 M4 Topic D: Division of Decimal Numbers	5.NSBT.7	5 M4 Topic B: Addition and Subtraction of Decimal Numbers
5 NA TODIC D. DIVISION OF DECIMAL NUMBERS	• •	5 M4 Topic C: Multiplication of Decimal Numbers
concrete area models and arawings.	decimal numbers to hundredths using concrete area models and drawings.	5 M4 Topic D: Division of Decimal Numbers

**5** | South Carolina College and Career Ready Standards for Mathematics Correlation to *Eureka Math*<sup>2</sup>

### **Number Sense and Operations—Fractions**

**5.NSF Number Sense and Operations—Fractions** 

## South Carolina College and Career Ready Standards for Mathematics

### Aligned Components of Eureka Math<sup>2</sup>

5.NSF.1  Add and subtract fractions with unlike denominators (including mixed numbers) using a variety of models, including an area model and number line.	5 M2 Topic B: Addition and Subtraction of Fractions by Making Like Units 5 M2 Topic C: Addition and Subtraction of Fractions, Whole Numbers, and Mixed Numbers
<b>5.NSF.2</b> Solve real-world problems involving addition and subtraction of fractions with unlike denominators.	5 M2 Topic C: Addition and Subtraction of Fractions, Whole Numbers, and Mixed Numbers 5 M2 Lesson 17: Solve problems by equally redistributing a total amount.
<b>5.NSF.3</b> Understand the relationship between fractions and division of whole numbers by interpreting a fraction as the numerator divided by the denominator (i.e., $\frac{a}{b} = a \div b$ ).	5 M2 Topic A: Fractions and Division
<b>5.NSF.4</b> Extend the concept of multiplication to multiply a fraction or whole number by a fraction.	This standard is fully addressed by the lessons aligned to its subsections.

### Aligned Components of Eureka Math<sup>2</sup>

5.NSF.4.a	5 M5 Lesson 8: Find areas of square tiles with fraction side lengths by relating the tile to a unit square.
Recognize the relationship between	5 M5 Lesson 9: Organize, count, and represent a collection of square tiles.
multiplying fractions and finding the areas of rectangles with fractional side lengths;	5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square.
side leriguis,	5 M5 Lesson 11: Find areas of rectangles with fraction side lengths by using multiplication.
	5 M5 Lesson 12: Multiply mixed numbers.
	5 M5 Lesson 13: Solve mathematical problems involving areas of composite figures with mixed-number side lengths.
	5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.
	5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.
5.NSF.4.b	5 M3 Topic A: Multiplication of a Whole Number by a Fraction
Interpret multiplication of a fraction by a whole number and a whole number by a fraction and compute the product;	
5.NSF.4.c	5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially.
Interpret multiplication in which both factors are fractions less than one and compute the product.	5 M3 Lesson 8: Multiply fractions less than 1 pictorially.
	5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems.
	5 M3 Lesson 11: Multiply fractions.
5.NSF.5	This standard is fully addressed by the lessons aligned to its subsections.
Justify the reasonableness of a product when multiplying with fractions.	

### Aligned Components of Eureka Math<sup>2</sup>

<b>5.NSF.5.a</b> Estimate the size of the product based on the size of the two factors;	<ul> <li>5 M3 Lesson 3: Multiply a whole number by a fraction less than 1.</li> <li>5 M3 Lesson 4: Multiply a whole number by a fraction.</li> <li>5 M3 Topic B: Multiplication of Fractions</li> </ul>
5.NSF.5.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;	<ul> <li>5 M3 Lesson 1: Find fractions of a set with arrays.</li> <li>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</li> <li>5 M3 Lesson 4: Multiply a whole number by a fraction.</li> <li>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</li> <li>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</li> <li>5 M3 Topic B: Multiplication of Fractions</li> </ul>
<b>5.NSF.5.c</b> Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number;	<ul> <li>5 M3 Lesson 1: Find fractions of a set with arrays.</li> <li>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</li> <li>5 M3 Lesson 4: Multiply a whole number by a fraction.</li> <li>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</li> <li>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</li> <li>5 M3 Topic B: Multiplication of Fractions</li> </ul>
5.NSF.5.d  Explain why multiplying the numerator and denominator by the same number has the same effect as multiplying the fraction by 1.	<ul> <li>5 M3 Lesson 1: Find fractions of a set with arrays.</li> <li>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</li> <li>5 M3 Lesson 4: Multiply a whole number by a fraction.</li> <li>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</li> </ul>

### Aligned Components of Eureka Math<sup>2</sup>

5.NSF.5.d continued	5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units. 5 M3 Topic B: Multiplication of Fractions
5.NSF.6	5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.
Solve real-world problems involving	5 M3 Lesson 21: Solve multi-step word problems involving fractions.
multiplication of a fraction by a fraction, improper fraction and a mixed number.	5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.
	5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers.
5.NSF.7	This standard is fully addressed by the lessons aligned to its subsections.
Extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations.	
5.NSF.7.a	5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.
Interpret division of a unit fraction by a	5 M3 Lesson 15: Divide by whole numbers and unit fractions.
non-zero whole number and compute the quotient;	5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.
	5 M3 Lesson 19: Create and solve one-step word problems involving fractions.
5.NSF.7.b	5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.
Interpret division of a whole number by a unit fraction and compute the quotient.	5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.
	5 M3 Lesson 15: Divide by whole numbers and unit fractions.
	5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.
	5 M3 Lesson 19: Create and solve one-step word problems involving fractions.

### Aligned Components of Eureka Math<sup>2</sup>

#### 5.NSF.8

Solve real-world problems involving division of unit fractions and whole numbers, using visual fraction models and equations.

- 5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.
- 5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.
- 5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.
- 5 M3 Lesson 15: Divide by whole numbers and unit fractions.
- 5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.
- 5 M3 Lesson 19: Create and solve one-step word problems involving fractions.
- 5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.
- 5 M3 Lesson 21: Solve multi-step word problems involving fractions.

#### **Algebraic Thinking and Operations**

#### **5.ATO Algebraic Thinking and Operations**

## South Carolina College and Career Ready Standards for Mathematics

### Aligned Components of Eureka Math<sup>2</sup>

#### 5.ATO.1

Evaluate numerical expressions involving grouping symbols (i.e., parentheses, brackets, braces).

- 5 M1 Lesson 7: Multiply by using familiar methods.
- 5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property.
- 5 M1 Topic D: Multi-Step Problems with Whole Numbers
- 5 M3 Lesson 18: Compare and evaluate expressions with parentheses.
- 5 M3 Lesson 22: Evaluate expressions involving nested grouping symbols.
- 5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals.
- 5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.

### Aligned Components of Eureka Math<sup>2</sup>

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5.ATO.2	5 M1 Topic D: Multi-Step Problems with Whole Numbers
Translate verbal phrases into numerical expressions and interpret numerical expressions as verbal phrases.	5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.
	5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.
	5 M3 Lesson 18: Compare and evaluate expressions with parentheses.
	5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals.
	5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.
5.ATO.3	This standard is fully addressed by the lessons aligned to its subsections.
Investigate the relationship between two numerical patterns.	
5.ATO.3.a	5 M6 Lesson 7: Generate number patterns to form ordered pairs.
Generate two numerical patterns given two rules and organize in tables;	5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.
	5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.
5.ATO.3.b	5 M6 Lesson 7: Generate number patterns to form ordered pairs.
Translate the two numerical patterns into two sets of ordered pairs;	5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.
	5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.
	5 M6 Lesson 20: Reason about patterns in real-world situations.

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5.ATO.3.c	5 M6 Lesson 7: Generate number patterns to form ordered pairs.
Graph the two sets of ordered pairs on the same coordinate plane;	5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.
	5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.
	5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.
	5 M6 Lesson 20: Reason about patterns in real-world situations.
5.ATO.3.d	5 M6 Lesson 7: Generate number patterns to form ordered pairs.
Identify the relationship between the two numerical patterns.	5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.
	5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.
	5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.
	5 M6 Lesson 20: Reason about patterns in real-world situations.

### Geometry

### **5.G Geometry**

South Carolina College and Career Ready Standards for Mathematics	Aligned Components of Eureka Math <sup>2</sup>
5.G.1	This standard is fully addressed by the lessons aligned to its subsections.
Define a coordinate system.	

### Aligned Components of Eureka Math<sup>2</sup>

5.G.1.a	5 M6 Lesson 1: Construct a coordinate system on a line.
The $x$ - and $y$ -axes are perpendicular number lines that intersect at $0$ (the origin);	5 M6 Lesson 2: Construct a coordinate system in a plane.
	5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.G.1.b	5 M6 Lesson 1: Construct a coordinate system on a line.
Any point on the coordinate plane can	5 M6 Lesson 2: Construct a coordinate system in a plane.
be represented by its coordinates;	5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.G.1.c	5 M6 Lesson 1: Construct a coordinate system on a line.
The first number in an ordered pair	5 M6 Lesson 2: Construct a coordinate system in a plane.
is the <i>x</i> -coordinate and represents the horizontal distance from the origin;	5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.G.1.d	5 M6 Lesson 1: Construct a coordinate system on a line.
The second number in an ordered pair	5 M6 Lesson 2: Construct a coordinate system in a plane.
is the <i>y</i> -coordinate and represents the vertical distance from the origin.	5 M6 Lesson 3: Identify and plot points by using ordered pairs.
5.G.2	5 M6 Lesson 4: Describe the distance and direction between points in the coordinate plane.
Plot and interpret points in the first	5 M6 Lesson 5: Identify properties of horizontal and vertical lines.
quadrant of the coordinate plane to represent real-world and mathematical situations.	5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems.
	5 M6 Lesson 7: Generate number patterns to form ordered pairs.
	5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.
	5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.
	5 M6 Topic C: Solve Mathematical Problems in the Coordinate Plane

### Aligned Components of Eureka Math<sup>2</sup>

5.G.2 continued	<ul> <li>5 M6 Lesson 16: Interpret graphs that represent real-world situations.</li> <li>5 M6 Lesson 17: Plot data in the coordinate plane and analyze relationships.</li> <li>5 M6 Lesson 18: Interpret line graphs.</li> <li>5 M6 Lesson 20: Reason about patterns in real-world situations.</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.	5 M5 Topic A: Drawing, Analysis, and Classification of Two-Dimensional Figures
<b>5.G.4</b> Classify two-dimensional figures in a hierarchy based on their attributes.	5 M5 Topic A: Drawing, Analysis, and Classification of Two-Dimensional Figures 5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.

### **Measurement and Data Analysis**

5.MDA Measurement and Data Analysis

## South Carolina College and Career Ready Standards for Mathematics

### Aligned Components of Eureka Math<sup>2</sup>

#### 5.MDA.1

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.

5 M1 Lesson 5: Convert measurements and describe relationships between metric units.

5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion.

5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.

5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.

5 M4 Lesson 26: Solve a real-world problem involving metric measurements.

5 M4 Lesson 27: Convert metric measurements involving decimals.

5 M4 Lesson 28: Convert customary measurements involving decimals.

### Aligned Components of Eureka Math<sup>2</sup>

5.MDA.2	5 M2 Topic D: Problem Solving and Line Plots with Fractional Measurements				
Create a line plot consisting of unit fractions and use operations on fractions to solve problems related to the line plot.					
<b>5.MDA.3</b> Understand the concept of volume measurement.	This standard is fully addressed by the lessons aligned to its subsections.				
5.MDA.3.a	5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms.				
Recognize volume as an attribute of right rectangular prisms;	<ul> <li>5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting.</li> <li>5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers.</li> <li>5 M5 Lesson 20: Interpret volume as filling.</li> <li>5 M5 Lesson 21: Relate volumes of solids and liquid volume.</li> </ul>				
5.MDA.3.b	5 M5 Topic C: Volume Concepts				
Relate volume measurement to the operations of multiplication and addition by packing right rectangular prisms and then counting the layers of standard unit cubes;					

### Aligned Components of Eureka Math<sup>2</sup>

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Determine the volume of right rectangular prisms using the formula derived from packing right rectangular prisms and counting the layers of standard unit cubes.

- 5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base.
- 5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.
- 5 M5 Lesson 25: Find the volumes of solid figures composed of right rectangular prisms.
- 5 M5 Lesson 26: Solve word problems involving perimeter, area, and volume.
- 5 M5 Lesson 27: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 1.
- 5 M5 Lesson 28: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 2.

#### 5.MDA.4

Differentiate among perimeter, area and volume and identify which application is appropriate for a given situation.

- 5 M5 Lesson 24: Solve word problems involving volumes of right rectangular prisms.
- 5 M5 Lesson 26: Solve word problems involving perimeter, area, and volume.