

ABOUT *EUREKA MATH*

Created by the nonprofit Great Minds, *Eureka Math* helps teachers deliver unparalleled math instruction that provides students with a deep understanding of 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.

Teachers 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.

ALIGNED

Eureka Math is the only curriculum found by [EdReports.org](https://www.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 that demonstrate how each grade of *Eureka Math* aligns with specific state standards. Access these free alignment studies at [greatminds.org/state-studies](https://www.greatminds.org/state-studies).

DATA

Schools and districts nationwide are experiencing student growth and impressive test scores after using *Eureka Math*. See their stories and data at [greatminds.org/data](https://www.greatminds.org/data).

FULL SUITE OF RESOURCES

As a nonprofit, Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at [greatminds.org/resources](https://www.greatminds.org/resources).

The teacher–writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:





- Printed material in English and Spanish
- Digital resources
- Professional development
- Classroom tools and manipulatives
- Teacher support materials
- Parent resources

Florida Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards in Mathematics Correlation to *Eureka Math*[®]

GRADE 5 MATHEMATICS

The majority of the Grade 5 Florida B.E.S.T. Mathematics Standards are fully covered by the Grade 5 *Eureka Math* curriculum. A small number of standards from Algebraic Reasoning, Measurement, Geometric Reasoning, and Analysis and Probability 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 the Florida standard is addressed in *Eureka Math*.
-  **YELLOW** indicates the Florida standard may not be completely addressed in *Eureka Math*.
-  **RED** indicates the Florida standard is not addressed in *Eureka Math*.
-  **BLUE** indicates there is a discrepancy between the grade level at which this standard is addressed in Florida and in *Eureka Math*.

Strand	Benchmark	Aligned Components of <i>Eureka Math</i>
Number Sense and Operations	Standard: MA.5.NSO.1 Understand the place value of multi-digit numbers with decimals to the thousandths place.	
	MA.5.NSO.1.1 Express how the value of a digit in a multi-digit number with decimals to the thousandths changes if the digit moves one or more places to the left or right.	G5 M1 Topic A: Multiplicative Patterns on a Place Value Chart
	MA.5.NSO.1.2 Read and write multi-digit numbers with decimals to the thousandths using standard form, word form and expanded form.	G5 M1 Topic B: Decimal Fractions and Place Value Patterns
	MA.5.NSO.1.3 Compose and decompose multi-digit numbers with decimals to the thousandths in multiple ways using the values of the digits in each place. Demonstrate the compositions or decompositions using objects, drawings and expressions or equations.	G5 M1 Topic A: Multiplicative Patterns on a Place Value Chart G5 M1 Topic B: Decimal Fractions and Place Value Patterns
	MA.5.NSO.1.4 Plot, order and compare multi-digit numbers with decimals up to the thousandths.	G5 M1 Topic B: Decimal Fractions and Place Value Patterns
	MA.5.NSO.1.5 Round multi-digit numbers with decimals to the thousandths to the nearest hundredth, tenth or whole number.	G5 M1 Topic C: Place Value and Rounding Decimal Fractions

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Aligned Components of *Eureka Math*

	<p>Standard: MA.5.NSO.2 Add, subtract, multiply and divide multi-digit numbers.</p>	
<p>MA.5.NSO.2.1</p> <p>Multiply multi-digit whole numbers, including using a standard algorithm with procedural fluency.</p>		<p>G5 M2 Topic A: Mental Strategies for Multi-Digit Whole Number Multiplication</p> <p>G5 M2 Topic B: The Standard Algorithm for Multi-Digit Whole Number Multiplication</p>
<p>MA.5.NSO.2.2</p> <p>Divide multi-digit whole numbers, up to five digits, by two digits, including using a standard algorithm with procedural fluency. Represent remainders as fractions.</p>		<p>G5 M2 Topic A: Mental Strategies for Multi-Digit Whole Number Division</p> <p>G5 M2 Topic F: Partial Quotients and Multi-Digit Whole Number Division</p>
<p>MA.5.NSO.2.3</p> <p>Add and subtract multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.</p>		<p>G5 M1 Topic D: Adding and Subtracting Decimals</p>
<p>MA.5.NSO.2.4</p> <p>Explore the multiplication and division of multi-digit numbers with decimals to the hundredths using estimation, rounding and place value.</p>		<p>G5 M1 Topic E: Multiplying Decimals</p> <p>G5 M1 Topic F: Dividing Decimals</p>
<p>MA.5.NSO.2.5</p> <p>Multiply and divide a multi-digit number with decimals to the tenths by one-tenth and one-hundredth with procedural reliability.</p>		<p>G5 M2 Topic C: Decimal Multi-Digit Multiplication</p> <p>G5 M2 Topic G: Partial Quotients and Multi-Digit Decimal Division</p>

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Fractions	Standard: MA.5.FR.1 Develop an understanding of the relationship between different fractions and the relationship between fractions and decimals.	
	MA.5.FR.1.1 Given a mathematical or real-world problem, represent the division of two whole numbers as a fraction.	G5 M4 Topic B: Fractions as Division
	Standard MA.5.FR.2 Perform operations with fractions.	
	MA.5.FR.2.1 Add and subtract fractions with unlike denominators, including mixed numbers and fractions greater than 1, with procedural reliability.	G5 M3 Topic B: Fractions as Division G5 M3 Topic C: Multiplication of a Whole Number by a Fraction
	MA.5.FR.2.2 Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability.	G5 M4 Topic E: Multiplication of a Fraction by a Fraction
	MA.5.FR.2.3 When multiplying a given number by a fraction less than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number without calculating.	G5 M4 Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems
	MA.5.FR.2.4 Extend previous understanding of division to explore the division of a unit fraction by a whole number and a whole number by a unit fraction.	G5 M4 Topic G: Division of Fractions and Decimal Fractions

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Algebraic Reasoning	Standard: MA.5.AR.1 Solve problems involving the four operations with whole numbers and fractions.	
	MA.5.AR.1.1 Solve multi-step real-world problems involving any combination of the four operations with whole numbers, including problems in which remainders must be interpreted within the context.	G5 M2 Lesson 9: Fluently multiply multi-digit whole numbers using the standard algorithm to solve multi-step word problems. G5 M2 Topic H: Measurement Word Problems with Multi-Digit Division G5 M6 Topic E: Multi-Step Word Problems
	MA.5.AR.1.2 Solve real-world problems involving the addition, subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.	G5 M3 Topic C: Making Like Units Numerically G5 M3 Topic D: Further Applications
	MA.5.AR.1.3 Solve real-world problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.	G5 M3 Topic D: Further Applications

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	<p>Standard: MA.5.AR.2 Demonstrate an understanding of equality, the order of operations and equivalent numerical expressions.</p>	
	<p>MA.5.AR.2.1 Translate written real-world and mathematical descriptions into numerical expressions and numerical expressions into written mathematical descriptions.</p>	<p>G5 M2 Lesson 3: Write and interpret numerical expressions and compare expressions using a visual model. G5 M2 Lesson 4: Convert numerical expressions into unit form as a mental strategy for multi-digit multiplication. G5 M4 Lesson 10: Compare and evaluate expressions with parentheses.</p>
	<p>MA.5.AR.2.2 Evaluate multi-step numerical expressions using order of operations.</p>	<p>G4 M3 Topic D: Multiplication Word Problems G4 M3 Topic E: Division of Tens and Ones with Successive Remainders</p>
	<p>MA.5.AR.2.3 Determine and explain whether an equation involving any of the four operations is true or false.</p>	<p>G6 M4 Lesson 23: True and False Number Sentences G6 M4 Lesson 24: True and False Number Sentences</p>
	<p>MA.5.AR.2.4 Given a mathematical or real-world context, write an equation involving any of the four operations to determine the unknown whole number with the unknown in any position.</p>	<p>G6 M4 Lesson 26: One-Step Equations—Addition and Subtraction G6 M4 Lesson 27: One-Step Equations—Multiplication and Division G6 M4 lesson 28: Two-Step Problems—All Operations</p>

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	<p>Standard: MA.5.AR.3 Analyze patterns and relationships between inputs and outputs.</p> <p>MA.5.AR.3.1 Given a numerical pattern, identify and write a rule that can describe the pattern as an expression.</p> <p>MA.5.AR.3.2 Given a rule for a numerical pattern, use a two-column table to record the inputs and outputs.</p>	<p>G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules</p> <p>G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules</p>
<p>Measurement</p>	<p>Standard: MA.5.M.1 Convert measurement units to solve multi-step problems.</p> <p>MA.5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.</p>	<p>G5 M2 Topic D: Measurement Word Problems with Whole Number and Decimal Multiplication</p> <p>G5 M4 Lesson 19: Convert Measure Involving Whole Numbers and Solve Multi-Step Word Problems</p> <p>G5 M4 Lesson 20: Convert Mixed-Unit Measurements and Solve Multi-Step Word Problems</p>

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	<p>Standard: MA.5.M.2 Solve problems involving money.</p> <p>MA.5.M.2.1 Solve multi-step real-world problems involving money using decimal notation.</p>	<p>G4 M6 Lesson 15: Express money amounts given in various forms as decimal numbers.</p> <p>G4 M6 Lesson 16: Solve word problems involving money.</p>
Geometric Reasoning	<p>Standard: MA.5.GR.1 Classify two-dimensional figures and three-dimensional figures based on defining attributes.</p>	
	<p>MA.5.GR.1.1 Classify triangles or quadrilaterals into different categories based on shared defining attributes. Explain why a triangle or quadrilateral would or would not belong to a category.</p>	<p>G4 M4 Topic D: Two-Dimensional Figures and Symmetry</p> <p>G5 M5 Topic D: Drawing, Analysis and Classification of Two-Dimensional Shapes</p>
	<p>MA.5.GR.1.2 Identify and classify three-dimensional figures into categories based on their defining attributes. Figures are limited to right pyramids, right prisms, right circular cylinders, right circular cones and spheres.</p>	<p>G5 M5 Lesson 20: Classify two-dimensional figures in a hierarchy based on properties.</p>
	<p>Standard: MA.5.GR.2 Find the perimeter and area of rectangles with fractional or decimal side lengths.</p>	
	<p>MA.5.GR.2.1 Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas.</p>	<p>G5 M5 Topic C: Area of Rectangular Figures with Fractional Side Lengths</p>

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	<p>Standard: MA.5.GR.3 Solve problems involving the volume of right rectangular prisms.</p>	
	<p>MA.5.GR.3.1</p> <p>Explore volume as an attribute of three-dimensional figures by packing them with unit cubes without gaps. Find the volume of a right rectangular prism with whole-number side lengths by counting unit cubes.</p>	<p>G5 M5 Topic A: Concepts of Volume</p> <p>G5 M5 Topic B: Volume and the Operations of Multiplication and Addition</p>
	<p>MA.5.GR.3.2</p> <p>Find the volume of a right rectangular prism with whole-number side lengths using a visual model and a formula.</p>	<p>G5 M5 Topic B: Volume and the Operations of Multiplication and Addition</p>
	<p>MA.5.GR.3.3</p> <p>Solve real-world problems involving the volume of right rectangular prisms, including problems with an unknown edge length, with whole-number edge lengths using a visual model or a formula. Write an equation with a variable for the unknown to represent the problem.</p>	<p>G5 M5 Topic B: Volume and the Operations of Multiplication and Addition</p>
	<p>Standard: MA.5.GR.4 Plot points and represent problems on the coordinate plane.</p>	
	<p>MA.5.GR.4.1</p> <p>Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of the coordinate plane.</p>	<p>G5 M6 Topic A: Coordinate Systems</p> <p>G5 M6 Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules</p>

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	<p>MA.5.GR.4.2</p> <p>Represent mathematical and real-world problems by plotting points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of the situation.</p>	<p>G5 M6 Topic C: Drawing Figures in the Coordinate Plane</p> <p>G5 M6 Topic D: Problem Solving in the Coordinate Plane</p>
<p>Data Analysis and Probability</p>	<p>Standard: MA.5.DP.1</p> <p>Collect, represent and interpret data and find the mean, mode, median or range of a data set.</p>	
	<p>MA.5.DP.1.1</p> <p>Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.</p>	<p>G5 M4 Topic A: Coordinate Systems</p> <p>G5 M6 Topic D: Problem Solving in the Coordinate Plane</p>
	<p>MA.5.DP.1.2</p> <p>Interpret numerical data, with whole-number values, represented with tables or line plots by determining the mean, mode, median or range.</p>	<p>G6 M6 Lesson 6: Describing the Center of a Distribution Using the Mean</p> <p>G6 M6 Lesson 7: The Mean as a Balance Point</p> <p>G6 M6 Lesson 12: Describing the Center of a Distribution Using the Median</p>