EUREKA MATH®

GREAT MINDS

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 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.
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.
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. 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 3 MATHEMATICS

The majority of the Grade 3 Florida B.E.S.T. Mathematics Standards are fully covered by the Grade 3 *Eureka Math* curriculum. The primary area where the Grade 3 Mathematics Florida Standards and Grade 3 *Eureka Math* do not align is in the domain of Number Sense and Operations. Standards from this domain, as well as Measurement and Geometric Reasoning 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 *Eureka Math*
Number Sense and Operations	**Standard: MA.3.NSO.1** **Understand the place value of four-digit numbers.**	
	MA.3.NSO.1.1 Read and write numbers from 0 to 10,000 using standard form, expanded form and word form.	G2 M4 Lesson 9: Place Value Practice (extend to 10,000) G2 M5 Lesson 11: Place Value (extend to 10,000)
	MA.3.NSO.1.2 Compose and decompose four-digit numbers in multiple ways using thousands, hundreds, tens and ones. Demonstrate each composition or decomposition using objects, drawings and expressions or equations.	G2 M8 Lesson 2: Rename for the Larger Unit (extend to four digits) G2 M8 Lesson 5: Rename for the Smaller Unit (extend to four digits)
	MA.3.NSO.1.3 Plot, order and compare whole numbers up to 10,000.	G2 M3 Lesson 16: Step 2 of Concept Development (extend to include up to five-digit numbers) G2 M3 Lesson 17: Step 2 of Concept Development (extend to include up to five-digit numbers)
	MA.3.NSO.1.4 Round whole numbers from 0 to 1,000 to the nearest 10 or 100.	G3 M2 Topic C: Rounding to the Nearest Ten and Hundred G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1

Strand	Benchmark	Aligned Components of *Eureka Math*
	Standard: MA.3.NSO.2 **Add and subtract multi-digit whole numbers. Build an understanding of multiplication and division operations.**	
	MA.3.NSO.2.1 Add and subtract multi-digit whole numbers, including using a standard algorithm with procedural fluency.	G3 M2 Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm G2 M2 Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm
	MA.3.NSO.2.2 Explore multiplication of two whole numbers with products from 0 to 144, and related division facts.	G3 M1 Topic D: Division Using Units of 2 and 3 G3 M1 Topic E: Multiplication and Division Using Units of 4 G3 M1 Topic F: Distributive Property and Problem Solving Using Units of 2–5 and 10 G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic B: Multiplication and Division Using Units of 6 and 7 G3 M3 Topic C: Multiplication and Division Using Units up to 8 G3 M3 Topic D: Multiplication and Division Using Units of 9 G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1 G3 M3 Topic F: Multiplication of Single-Digit Factors and Multiples of 10

Strand	Benchmark	Aligned Components of *Eureka Math*
	MA.3.NSO.2.3 Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with procedural reliability.	G3 M3 Topic F: Multiplication of Single-Digit Factors and Multiples of 10 G4 M3 Lesson 5: Multiply Multiples of 10, 100 and 1,000 by Single Digits, Recognizing Patterns
	MA.3.NSO.2.4 Multiply two whole numbers from 0 to 12 and divide using related facts with procedural reliability.	G3 M1 Topic A: Multiplication and the Meaning of the Factors G3 M1 Topic E: Multiplication and Division Using Units of 4 G3 M1 Topic F: Distributive Property and Problem Solving Using Units of 2–5 and 10 G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic B: Multiplication and Division Using Units of 6 and 7 G3 M3 Topic C: Multiplication and Division Using Units up to 8 G3 M3 Topic D: Multiplication and Division Using Units of 9 G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1 G3 M3 Topic F: Multiplication of Single-Digit Factors and Multiples of 10

Strand	Benchmark	Aligned Components of *Eureka Math*
Fractions	**Standard: MA.3.FR.1** **Understand fractions as numbers and represent fractions.**	
	MA.3.FR.1.1 Represent and interpret unit fractions in the form $\frac{1}{n}$ as the quantity formed by one part when a whole is partitioned into n equal parts.	G3 M5 Topic A: Partition a Whole into Equal Parts
	MA.3.FR.1.2 Represent and interpret fractions, including fractions greater than one, in the form of $\frac{m}{n}$ as the result of adding the unit fraction $\frac{1}{n}$ to itself m times.	G3 M5 Topic B: Unit Fractions and Their Relation to the Whole G3 M5 Topic D: Fractions on the Number Line G3 M5 Topic E: Equivalent Fractions G3 M5 Topic F: Comparison, Order and Size of Fractions
	MA.3.FR.1.3 Read and write fractions, including fractions greater than one, using standard form, numeral-word form and word form.	G3 M5: Fractions as Numbers on the Number Line

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	Standard MA.3.FR.2 **Order and compare fractions and identify equivalent fractions.**	
	MA.3.FR.2.1 Plot, order and compare fractional numbers with the same numerator or the same denominator.	G3 M5 Topic B: Unit Fractions and Their Relation to the Whole G3 M5 Topic C: Comparing Unit Fractions and Specifying the Whole G3 M5 Topic D: Fractions on the Number Line G3 M5 Topic F: Comparison, Order and Size of Fractions
	MA.3.FR.2.2 Identify equivalent fractions and explain why they are equivalent.	G3 M5 Topic E: Equivalent Fractions
Algebraic Reasoning	**Standard: MA.3.AR.1** **Solve multiplication and division problems.**	
	MA.3.AR.1.1 Apply the distributive property to multiply a one-digit number and two-digit number. Apply properties of multiplication to find a product of one-digit whole numbers.	G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic B: Multiplication and Division Using Units of 6 and 7

Strand	Benchmark	Aligned Components of *Eureka Math*
	MA.3.AR.1.2 Solve one- and two-step real-world problems involving any of four operations with whole numbers.	G3 M1 Topic F: Distributive Property and Problem Solving Using Units of 2–5 and 10 G3 M2 Topic B: Measuring Weight and Liquid Volume in Metric Units G3 M2 Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm G3 M2 Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm G3 M3 Topic D: Multiplication and Division Using Units of 9 G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1 G3 M3 Topic F: Multiplication of Single-Digit Factors and Multiples of 10

Strand	Benchmark	Aligned Components of *Eureka Math*
	Standard: MA.3.AR.2 **Develop an understanding of equality and multiplication and division.**	
	MA.3.AR.2.1 Restate a division problem as a missing factor problem using the relationship between multiplication and division.	G3 M1 Topic B: Division as an Unknown Factor Problem G3 M1 Topic D: Division Using Units of 2 and 3 G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic B: Multiplication and Division Using Units of 6 and 7 G3 M3 Topic C: Multiplication and Division Using Units up to 8 G3 M3 Topic D: Multiplication and Division Using Units of 9 G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1
	MA.3.AR.2.2 Determine and explain whether an equation involving multiplication or division is true or false.	G3 M1: Properties of Multiplication and Division and Solving Problems with Units of 2–5 and 10 G3 M3: Multiplication and Division with Units of 0, 1, 6–9 and Multiples of 10

Strand	Benchmark	Aligned Components of *Eureka Math*
	MA.3.AR.2.3 Determine the unknown whole number in a multiplication or division equation, relating three whole numbers with the unknown in any position.	G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic B: Multiplication and Division Using Units of 6 and 7 G3 M3 Topic D: Multiplication and Division Using Units of 9
	Standard: MA.3.AR.3 **Identify numerical patterns, including multiplicative patterns.**	
	MA.3.AR.3.1 Determine and explain whether a whole number from 1 to 1,000 is even or odd.	G2 M6 Topic D: The Meaning of Even and Odd Numbers
	MA.3.AR.3.2 Determine whether a whole number from 1 to 144 is a multiple of a given one-digit number.	G3 M3: Multiplication and Division with Units of 0, 1, 6–9 and Multiples of 10
	MA.3.AR.3.3 Identify, create and extend numerical patterns.	G3 M3 Topic A: The Properties of Multiplication and Division G3 M3 Topic D: Multiplication and Division Using Units of 9 G3 M3 Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1

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Measurement	**Standard: MA.3.M.1** **Measure attributes of objects and solve problems involving measurement.**	
	MA.3.M.1.1 Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.	G3 M2 Topic B: Measuring Weight and Liquid Volume in Metric Units G3 M6 Topic B: Generate and Analyze Measurement Data
	MA.3.M.1.2 Solve real-world problems involving any of the four operations with whole-number lengths, masses, weights, temperatures or liquid volumes.	G3 M2 Topic B: Measuring Weight and Liquid Volume in Metric Units
	Standard: MA.3.M.2 **Tell and write time and solve problems involving time.**	
	MA.3.M.2.1 Using analog and digital clocks, tell and write time to the nearest minute using a.m. and p.m. appropriately.	G3 M2 Topic A: Time Measurement and Problem Solving
	MA.3.M.2.2 Solve one- and two-step real-world problems involving elapsed time.	G3 M2 Topic A: Time Measurement and Problem Solving

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Geometric Reasoning	**Standard: MA.3.GR.1** **Describe and identify relationships between lines and classify quadrilaterals.**	
	MA.3.GR.1.1 Describe and draw points, lines, line segments, rays, intersecting lines, perpendicular lines and parallel lines. Identify these in two-dimensional figures.	G4 M4 Topic A: Lines and Angles
	MA.3.GR.1.2 Identify and draw quadrilaterals based on their defining attributes. Quadrilaterals include parallelograms, rhombi, rectangles, squares and trapezoids.	G3 M7 Topic B: Attributes of Two-Dimensional Figures G3 M7 Topic C: Problem Solving with Perimeter
	MA.3.GR.1.3 Draw line(s) of symmetry in a two-dimensional figure and identify line-symmetric two-dimensional figures.	G4 M4 Topic D: Two-Dimensional Figures and Symmetry
	Standard: MA.3.GR.2 **Solve problems involving the perimeter and area of rectangles.**	
	MA.3.GR.2.1 Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares.	G3 M4 Topic A: Foundations for Understanding Area G3 M4 Topic B: Concepts of Area Measurement
	MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.	G3 M4 Topic B: Concepts of Area Measurement

Strand	Benchmark	Aligned Components of *Eureka Math*
	MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula.	G3 M4 Topic C: Arithmetic Properties Using Area Models G3 M7 Topic C: Problem Solving with Perimeter G3 M7 Topic D: Recording Perimeter and Area Data on Line Plots G3 M7 Topic E: Problem Solving with Perimeter and Area
	MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed of non-overlapping rectangles with whole-number side lengths.	G3 M4 Topic D: Applications of Area Using Side Lengths of Figures G3 M7 Topic E: Problem Solving with Perimeter and Area
Data Analysis and Probability	**Standard: MA.3.DP.1** **Collect, represent and interpret numerical and categorical data.**	
	MA.3.DP.1.1 Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate titles, labels and units.	G3 M6 Topic A: Generate and Analyze Categorical Data G3 M6 Topic B: Generate and Analyze Measurement Data
	MA.3.DP.1.2 Interpret data with whole-number values represented with tables, scaled pictographs, circle graphs, scaled bar graphs or line plots by solving one- and two-step problems.	G3 M6 Topic B: Generate and Analyze Measurement Data