
Grade 6 | Florida's B.E.S.T. Standards for Mathematics Correlation to *Eureka Math*²®

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*²®, 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*² 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*² 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 Math*² 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 Math*² 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*² 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.

Mathematical Thinking and Reasoning Standards	Aligned Components of <i>Eureka Math</i> ²
<p>MA.K12.MTR.1.1 Actively participate in effortful learning both individually and collectively.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.2.1 Demonstrate understanding by representing problems in multiple ways.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.3.1 Complete tasks with mathematical fluency.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.4.1 Engage in discussions that reflect on the mathematical thinking of self and others.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.5.1 Use patterns and structure to help understand and connect mathematical concepts.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.6.1 Assess the reasonableness of solutions.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>
<p>MA.K12.MTR.7.1 Apply mathematics to real-world contexts.</p>	<p>Lessons in every module engage students in mathematical thinking and reasoning. These are indicated in margin notes included with every lesson.</p>

Number Sense and Operations

MA.6.NSO.1 Extend knowledge of numbers to negative numbers and develop an understanding of absolute value.

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<p>MA.6.NSO.1.1</p> <p>Extend previous understanding of numbers to define rational numbers. Plot, order and compare rational numbers.</p>	<p>6 M3 Lesson 2: Integers</p> <p>6 M3 Lesson 3: Rational Numbers</p> <p>6 M3 Lesson 5: Comparing Rational Numbers</p> <p>6 M3 Lesson 6: Ordering Rational Numbers</p>
<p>MA.6.NSO.1.2</p> <p>Given a mathematical or real-world context, represent quantities that have opposite direction using rational numbers. Compare them on a number line and explain the meaning of zero within its context.</p>	<p>6 M3 Lesson 1: Positive and Negative Numbers</p> <p>6 M3 Lesson 4: Rational Numbers in Real-World Situations</p> <p>6 M3 Lesson 5: Comparing Rational Numbers</p> <p>6 M3 Lesson 6: Ordering Rational Numbers</p>
<p>MA.6.NSO.1.3</p> <p>Given a mathematical or real-world context, interpret the absolute value of a number as the distance from zero on a number line. Find the absolute value of rational numbers.</p>	<p>6 M3 Lesson 7: Absolute Value</p>
<p>MA.6.NSO.1.4</p> <p>Solve mathematical and real-world problems involving absolute value, including the comparison of absolute value.</p>	<p>6 M3 Lesson 8: Absolute Value and Order</p> <p>6 M3 Lesson 9: Interpreting Order and Distance in Real-World Situations</p>

Number Sense and Operations

MA.6.NSO.2 Add, subtract, multiply and divide positive rational numbers.

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<p>MA.6.NSO.2.1</p> <p>Multiply and divide positive multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.</p>	<p>6 M2 Lesson 14: Patterns in Multiplying Decimals</p> <p>6 M2 Lesson 15: Decimal Multiplication</p> <p>6 M2 Lesson 19: Expressing Quotients as Decimals</p> <p>6 M2 Topic F: Decimal Division</p>
<p>MA.6.NSO.2.2</p> <p>Extend previous understanding of multiplication and division to compute products and quotients of positive fractions by positive fractions, including mixed numbers, with procedural fluency.</p>	<p>5 M3 Topic B: Multiplication of Fractions</p> <p>5 M5 Lesson 12: Multiply mixed numbers.</p> <p>6 M2 Topic B: Dividing Fractions</p> <p>6 M2 Topic C: Dividing Fractions Fluently</p>
<p>MA.6.NSO.2.3</p> <p>Solve multi-step real-world problems involving any of the four operations with positive multi-digit decimals or positive fractions, including mixed numbers.</p>	<p>6 M2 Lesson 11: Applications of Fraction Division</p> <p>6 M2 Lesson 12: Fraction Operations in a Real-World Situation</p> <p>6 M2 Lesson 13: Decimal Addition and Subtraction</p> <p>6 M2 Lesson 15: Decimal Multiplication</p> <p>6 M2 Lesson 16: Applications of Decimal Operations</p> <p>6 M2 Lesson 20: Real-World Division Problems</p> <p>6 M2 Lesson 24: Living on Mars</p> <p>6 M4 Lesson 1: Expressions with Addition and Subtraction</p> <p>6 M4 Lesson 2: Expressions with Multiplication and Division</p>

Number Sense and Operations

MA.6.NSO.3 Apply properties of operations to rewrite numbers in equivalent forms.

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<p>MA.6.NSO.3.1</p> <p>Given a mathematical or real-world context, find the greatest common factor and least common multiple of two whole numbers.</p>	<p>6 M2 Topic A: Factors, Multiples, and Divisibility</p>
<p>MA.6.NSO.3.2</p> <p>Rewrite the sum of two composite whole numbers having a common factor, as a common factor multiplied by the sum of two whole numbers.</p>	<p>6 M4 Lesson 13: The Distributive Property</p> <p>6 M4 Lesson 14: Using the Distributive Property to Factor Expressions</p>
<p>MA.6.NSO.3.3</p> <p>Evaluate positive rational numbers and integers with natural number exponents.</p>	<p>6 M4 Lesson 3: Exploring Exponents</p> <p>6 M4 Lesson 4: Evaluating Expressions with Exponents</p> <p>6 M4 Lesson 5: Exploring Order of Operations</p> <p>6 M4 Lesson 6: Order of Operations</p>
<p>MA.6.NSO.3.4</p> <p>Express composite whole numbers as a product of prime factors with natural number exponents.</p>	<p>6 M2 Lesson 3: The Greatest Common Factor</p> <p>6 M4 Lesson 3: Exploring Exponents</p>
<p>MA.6.NSO.3.5</p> <p>Rewrite positive rational numbers in different but equivalent forms including fractions, terminating decimals and percentages.</p>	<p>6 M1 Lesson 22: Introduction to Percents</p>

Number Sense and Operations

MA.6.NSO.4 Extend understanding of operations with integers.

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<p>MA.6.NSO.4.1</p> <p>Apply and extend previous understandings of operations with whole numbers to add and subtract integers with procedural fluency.</p>	<p>7 M2 Lesson 1: Combining Opposites</p> <p>7 M2 Lesson 2: Adding Integers</p> <p>7 M2 Lesson 3: Adding Integers Efficiently</p> <p>7 M2 Lesson 4: KAKOOMA[®]</p> <p>7 M2 Lesson 7: What Subtraction Means</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p> <p>7 M2 Lesson 9: Subtracting Integers, Part 2</p>
<p>MA.6.NSO.4.2</p> <p>Apply and extend previous understandings of operations with whole numbers to multiply and divide integers with procedural fluency.</p>	<p>7 M2 Lesson 13: Understanding Multiples of Negative Numbers</p> <p>7 M2 Lesson 14: Understanding the Product of Two Negative Numbers</p> <p>7 M2 Lesson 17: Understanding Negative Dividends</p> <p>7 M2 Lesson 18: Understanding Negative Divisors</p>

Algebraic Reasoning

MA.6.AR.1 Apply previous understanding of arithmetic expressions to algebraic expressions.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
<p>MA.6.AR.1.1</p> <p>Given a mathematical or real-world context, translate written descriptions into algebraic expressions and translate algebraic expressions into written descriptions.</p>	<p>6 M4 Topic B: Expressions and Real-World Problems</p> <p>6 M4 Lesson 16: Equivalent Algebraic Expressions</p>

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<p>MA.6.AR.1.2</p> <p>Translate a real-world written description into an algebraic inequality in the form of $x > a$, $x < a$, $x \geq a$ or $x \leq a$. Represent the inequality on a number line.</p>	<p>6 M4 Lesson 18: Inequalities and Solutions</p> <p><i>Supplemental material is necessary to address inequalities of the form $x \geq a$ and $x \leq a$.</i></p>
<p>MA.6.AR.1.3</p> <p>Evaluate algebraic expressions using substitution and order of operations.</p>	<p>6 M4 Lesson 8: Algebraic Expressions with Addition, Subtraction, Multiplication, and Division</p> <p>6 M4 Lesson 11: Modeling Real-World Situations with Expressions</p> <p>6 M4 Lesson 12: Applying Properties to Multiplication and Division Expressions</p> <p>6 M4 Lesson 17: Equations and Solutions</p>
<p>MA.6.AR.1.4</p> <p>Apply the properties of operations to generate equivalent algebraic expressions with integer coefficients.</p>	<p>6 M4 Topic C: Equivalent Expressions Using the Properties of Operations</p>

Algebraic Reasoning

MA.6.AR.2 Develop an understanding for solving equations and inequalities. Write and solve one-step equations in one variable.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
<p>MA.6.AR.2.1</p> <p>Given an equation or inequality and a specified set of integer values, determine which values make the equation or inequality true or false.</p>	<p>6 M4 Lesson 17: Equations and Solutions</p> <p>6 M4 Lesson 18: Inequalities and Solutions</p>

**Florida's B.E.S.T. Standards
for Mathematics**

Aligned Components of *Eureka Math*²

<p>MA.6.AR.2.2</p> <p>Write and solve one-step equations in one variable within a mathematical or real-world context using addition and subtraction, where all terms and solutions are integers.</p>	<p>6 M4 Lesson 19: Solving Equations with Addition and Subtraction</p> <p>6 M4 Lesson 21: Solving Problems with Equations</p>
<p>MA.6.AR.2.3</p> <p>Write and solve one-step equations in one variable within a mathematical or real-world context using multiplication and division, where all terms and solutions are integers.</p>	<p>6 M4 Lesson 20: Solving Equations with Multiplication and Division</p> <p>6 M4 Lesson 21: Solving Problems with Equations</p>
<p>MA.6.AR.2.4</p> <p>Determine the unknown decimal or fraction in an equation involving any of the four operations, relating three numbers, with the unknown in any position.</p>	<p>6 M4 Lesson 17: Equations and Solutions</p> <p>6 M4 Lesson 19: Solving Equations with Addition and Subtraction</p> <p>6 M4 Lesson 20: Solving Equations with Multiplication and Division</p> <p>6 M4 Lesson 21: Solving Problems with Equations</p>

Algebraic Reasoning

MA.6.AR.3 Understand ratio and unit rate concepts and use them to solve problems.

Florida's B.E.S.T. Standards for Mathematics	Aligned Components of <i>Eureka Math</i> ²
<p>MA.6.AR.3.1</p> <p>Given a real-world context, write and interpret ratios to show the relative sizes of two quantities using appropriate notation: $\frac{a}{b}$, a to b, or $a:b$ where $b \neq 0$.</p>	<p>6 M1 Lesson 2: Introduction to Ratios</p> <p>6 M1 Lesson 3: Ratios and Tape Diagrams</p> <p>6 M1 Lesson 4: Exploring Ratios by Making Batches</p> <p>6 M1 Lesson 5: Equivalent Ratios</p> <p>6 M1 Lesson 8: Addition Patterns in Ratio Relationships</p> <p>6 M1 Lesson 10: Multiplicative Reasoning in Ratio Relationships</p> <p>6 M1 Lesson 11: Applications of Ratio Reasoning</p> <p>6 M1 Lesson 15: The Value of the Ratio</p>
<p>MA.6.AR.3.2</p> <p>Given a real-world context, determine a rate for a ratio of quantities with different units. Calculate and interpret the corresponding unit rate.</p>	<p>6 M1 Lesson 15: The Value of the Ratio</p> <p>6 M1 Topic D: Rates</p>
<p>MA.6.AR.3.3</p> <p>Extend previous understanding of fractions and numerical patterns to generate or complete a two- or three-column table to display equivalent part-to-part ratios and part-to-part-to-whole ratios.</p>	<p>6 M1 Topic B: Collections of Equivalent Ratios</p> <p>6 M1 Topic C: Comparing Ratio Relationships</p>

**Florida's B.E.S.T. Standards
for Mathematics**

Aligned Components of *Eureka Math*²

<p>MA.6.AR.3.4</p> <p>Apply ratio relationships to solve mathematical and real-world problems involving percentages using the relationship between two quantities.</p>	<p>6 M1 Topic E: Percents</p>
<p>MA.6.AR.3.5</p> <p>Solve mathematical and real-world problems involving ratios, rates and unit rates, including comparisons, mixtures, ratios of lengths and conversions within the same measurement system.</p>	<p>6 M1 Lesson 1: Jars of Jelly Beans</p> <p>6 M1 Lesson 3: Ratios and Tape Diagrams</p> <p>6 M1 Lesson 4: Exploring Ratios by Making Batches</p> <p>6 M1 Lesson 5: Equivalent Ratios</p> <p>6 M1 Topic B: Collections of Equivalent Ratios</p> <p>6 M1 Topic C: Comparing Ratio Relationships</p> <p>6 M1 Topic D: Rates</p> <p>6 M4 Lesson 22: Relationship Between Two Variables</p> <p>6 M4 Lesson 23: Graphs of Ratio Relationships</p> <p>6 M5 Lesson 8: Areas of Composite Figures in Real-World Situations</p> <p>6 M5 Lesson 13: Surface Area in Real-World Situations</p>

Geometric Reasoning

MA.6.GR.1 Apply previous understanding of the coordinate plane to solve problems.

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<p>MA.6.GR.1.1</p> <p>Extend previous understanding of the coordinate plane to plot rational number ordered pairs in all four quadrants and on both axes. Identify the x- or y-axis as the line of reflection when two ordered pairs have an opposite x- or y-coordinate.</p>	<p>6 M3 Lesson 10: The Four Quadrants of the Coordinate Plane</p> <p>6 M3 Lesson 11: Plotting Points in the Coordinate Plane</p> <p>6 M3 Lesson 12: Reflections in the Coordinate Plane</p> <p>6 M3 Lesson 13: Constructing the Coordinate Plane</p>
<p>MA.6.GR.1.2</p> <p>Find distances between ordered pairs, limited to the same x-coordinate or the same y-coordinate, represented on the coordinate plane.</p>	<p>6 M3 Lesson 15: Distance in the Coordinate Plane</p>
<p>MA.6.GR.1.3</p> <p>Solve mathematical and real-world problems by plotting points on a coordinate plane, including finding the perimeter or area of a rectangle.</p>	<p>6 M3 Lesson 14: Modeling with the Coordinate Plane</p> <p>6 M3 Topic D: Solving Problems in the Coordinate Plane</p> <p>6 M5 Lesson 5: Perimeter and Area in the Coordinate Plane</p> <p>6 M5 Lesson 6: Problem Solving with Area in the Coordinate Plane</p>

Geometric Reasoning

MA.6.GR.2 Model and solve problems involving two-dimensional figures and three-dimensional figures.

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<p>MA.6.GR.2.1</p> <p>Derive a formula for the area of a right triangle using a rectangle. Apply a formula to find the area of a triangle.</p>	<p>6 M5 Lesson 2: The Area of a Right Triangle</p> <p>6 M5 Lesson 3: The Area of a Triangle</p> <p>6 M5 Lesson 4: Areas of Triangles in Real-World Situations</p>
<p>MA.6.GR.2.2</p> <p>Solve mathematical and real-world problems involving the area of quadrilaterals and composite figures by decomposing them into triangles or rectangles.</p>	<p>6 M5 Lesson 1: The Area of a Parallelogram</p> <p>6 M5 Topic B: Problem Solving with Area</p>
<p>MA.6.GR.2.3</p> <p>Solve mathematical and real-world problems involving the volume of right rectangular prisms with positive rational number edge lengths using a visual model and a formula.</p>	<p>6 M5 Topic D: Volumes of Right Rectangular Prisms</p>
<p>MA.6.GR.2.4</p> <p>Given a mathematical or real-world context, find the surface area of right rectangular prisms and right rectangular pyramids using the figure’s net.</p>	<p>6 M5 Topic C: Nets and Surface Area</p> <p>6 M5 Lesson 19: Volume and Surface Area in Real-World Situations</p>

Data Analysis and Probability

MA.6.DP.1 Develop an understanding of statistics and determine measures of center and measures of variability. Summarize statistical distributions graphically and numerically.

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<p>MA.6.DP.1.1</p> <p>Recognize and formulate a statistical question that would generate numerical data.</p>	<p>6 M6 Lesson 1: Posing Statistical Questions</p> <p>6 M6 Lesson 2: Describing a Data Distribution</p> <p>6 M6 Lesson 6: Selecting a Data Display</p> <p>6 M6 Lesson 17: Developing a Statistical Project</p>
<p>MA.6.DP.1.2</p> <p>Given a numerical data set within a real-world context, find and interpret mean, median, mode and range.</p>	<p>6 M6 Lesson 2: Describing a Data Distribution</p> <p>6 M6 Lesson 3: Creating a Dot Plot</p> <p>6 M6 Topic B: Mean and Mean Absolute Deviation</p> <p>6 M6 Topic C: Median, Interquartile Range, and Box Plots</p> <p>6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures</p> <p>6 M6 Lesson 20: Choosing a Measure of Center</p> <p>6 M6 Lesson 22: Presenting Statistical Projects</p> <p><i>Supplemental material is necessary to address mode.</i></p>
<p>MA.6.DP.1.3</p> <p>Given a box plot within a real-world context, determine the minimum, the lower quartile, the median, the upper quartile and the maximum. Use this summary of the data to describe the spread and distribution of the data.</p>	<p>6 M6 Topic C: Median, Interquartile Range, and Box Plots</p> <p>6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures</p> <p>6 M6 Lesson 19: Comparing Data Distributions</p> <p>6 M6 Lesson 22: Presenting Statistical Projects</p>

**Florida's B.E.S.T. Standards
for Mathematics**

Aligned Components of *Eureka Math*²

<p>MA.6.DP.1.4</p> <p>Given a histogram or line plot within a real-world context, qualitatively describe and interpret the spread and distribution of the data, including any symmetry, skewness, gaps, clusters, outliers and the range.</p>	<p>5 M2 Topic D: Problem Solving and Line Plots with Fractional Measurements</p> <p>6 M6 Lesson 2: Describing a Data Distribution</p> <p>6 M6 Lesson 3: Creating a Dot Plot</p> <p>6 M6 Lesson 4: Creating a Histogram</p> <p>6 M6 Lesson 5: Comparing Data Displays</p> <p>6 M6 Lesson 6: Selecting a Data Display</p> <p>6 M6 Topic B: Mean and Mean Absolute Deviation</p> <p>6 M6 Lesson 12: Using the Median to Describe the Center</p> <p>6 M6 Lesson 13: Using the Interquartile Range to Describe Variability</p> <p>6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures</p> <p>6 M6 Lesson 19: Comparing Data Distributions</p> <p>6 M6 Lesson 20: Choosing a Measure of Center</p> <p>6 M6 Lesson 21: Comparing Measures of Variability</p> <p>6 M6 Lesson 22: Presenting Statistical Projects</p>
<p>MA.6.DP.1.5</p> <p>Create box plots and histograms to represent sets of numerical data within real-world contexts.</p>	<p>6 M6 Lesson 4: Creating a Histogram</p> <p>6 M6 Lesson 5: Comparing Data Displays</p> <p>6 M6 Lesson 6: Selecting a Data Display</p> <p>6 M6 Lesson 14: Using a Box Plot to Summarize a Distribution</p> <p>6 M6 Lesson 15: More Practice with Box Plots</p> <p>6 M6 Lesson 16: Interpreting Box Plots</p> <p>6 M6 Lesson 19: Comparing Data Distributions</p> <p>6 M6 Lesson 22: Presenting Statistical Projects</p>

**Florida's B.E.S.T. Standards
for Mathematics**

Aligned Components of *Eureka Math*²

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<p>MA.6.DP.1.6</p> <p>Given a real-world scenario, determine and describe how changes in data values impact measures of center and variation.</p>	<p>6 M6 Topic B: Mean and Mean Absolute Deviation</p> <p>6 M6 Lesson 12: Using the Median to Describe the Center</p> <p>6 M6 Lesson 13: Using the Interquartile Range to Describe Variability</p> <p>6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures</p> <p>6 M6 Lesson 20: Choosing a Measure of Center</p> <p>6 M6 Lesson 21: Comparing Measures of Variability</p>