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## Grade 6 | Missouri Mathematics Learning Standards (2016) Correlation to *Eureka Math*<sup>2</sup>® (2027)

*Eureka Math*<sup>2</sup> is a research-proven math curriculum that empowers teachers to center instructional techniques on student success. Teachers can foster more “aha!” learning moments by providing the support needed for all learners to build a more confident math mindset.

This *Eureka Math*<sup>2</sup> edition builds on a strong foundation of effective instruction. It provides teachers with guidance on delivering rigorous instruction that honors student choice and encourages confident problem-solving.

*Eureka Math*<sup>2</sup> carefully sequences mathematical content to maximize vertical alignment from kindergarten through high school. This kind of sequencing has proven to be essential in students’ mastery of math.

### 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 into the teacher materials.

### Accessibility

*Eureka Math*<sup>2</sup> incorporates Universal Design for Learning (UDL) principles so all learners can access the mathematics and take on challenging math concepts. UDL, Differentiation, and Multilingual Learner supports are built into the instructional design and are clearly identified in the *Teach* book.

The curriculum also carries a focus on readability. By eliminating unnecessary words and using clear sentences, the *Eureka Math*<sup>2</sup> 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.

### Math Confidence

*Eureka Math*<sup>2</sup> fosters a classroom culture of learning by encouraging student-led discourse and cognitive engagement that results in confident learners. By leveraging consistent models, routines, and progressions, teachers can remove barriers and allow all students an avenue to success. Within the digital platform, each grade includes wordless videos and digital interactives that spark students’ curiosity and help them make conceptual connections. Using the *Learn* books, students wonder, explore, and make sense of mathematics, which helps them develop a strong, positive mathematical identity.

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

## Ratios and Proportional Relationships

### 6.RP.A Understand and use ratios to solve problems.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.RP.A.1</b></p> <p>Understand a ratio as a comparison of two quantities and represent these comparisons.</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><b>6.RP.A.2</b></p> <p>Understand the concept of a unit rate associated with a ratio, and describe the meaning of unit rate.</p>	<p>6 M1 Lesson 15: The Value of the Ratio</p> <p>6 M1 Lesson 16: Speed</p> <p>6 M1 Lesson 17: Rates</p> <p>6 M1 Lesson 18: Comparing Rates</p> <p>6 M1 Lesson 19: Using Rates to Convert Units</p> <p>6 M1 Lesson 20: Solving Rate Problems</p>
<p><b>6.RP.A.3</b></p> <p>Solve problems involving ratios and rates.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>

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<p><b>6.RP.A.3.a</b></p> <p>Create tables of equivalent ratios, find missing values in the tables and plot the pairs of values on the Cartesian coordinate plane.</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 Lesson 6: Ratio Tables and Double Number Lines</p> <p>6 M1 Lesson 7: Graphs of Ratio Relationships</p> <p>6 M1 Lesson 8: Addition Patterns in Ratio Relationships</p> <p>6 M1 Lesson 9: Multiplication 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 12: Multiple Ratio Relationships</p> <p>6 M1 Lesson 13: Comparing Ratio Relationships, Part 1</p> <p>6 M1 Lesson 14: Comparing Ratio Relationships, Part 2</p> <p>6 M1 Lesson 15: The Value of the Ratio</p> <p>6 M1 Lesson 16: Speed</p> <p>6 M1 Lesson 18: Comparing Rates</p> <p>6 M4 Lesson 22: Relationship Between Two Variables</p> <p>6 M4 Lesson 23: Graphs of Ratio Relationships</p>
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Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.RP.A.3.b</b> Solve unit rate problems.</p>	<p>6 M1 Lesson 16: Speed                      6 M1 Lesson 17: Rates                      6 M1 Lesson 18: Comparing Rates                      6 M1 Lesson 19: Using Rates to Convert Units                      6 M1 Lesson 20: Solving Rate Problems                      6 M1 Lesson 21: Solving Multi-Step Rate Problems                      6 M5 Lesson 8: Areas of Composite Figures in Real-World Situations                      6 M5 Lesson 13: Surface Area in Real-World Situations</p>
<p><b>6.RP.A.3.c</b> Solve percent problems.</p>	<p>6 M1 Lesson 22: Introduction to Percents                      6 M1 Lesson 23: Finding the Percent                      6 M1 Lesson 24: Finding a Part                      6 M1 Lesson 25: Finding the Whole                      6 M1 Lesson 26: Solving Percent Problems</p>
<p><b>6.RP.A.3.d</b> Convert measurement units within and between two systems of measurement.</p>	<p>6 M1 Lesson 19: Using Rates to Convert Units                      6 M1 Lesson 20: Solving Rate Problems                      6 M1 Lesson 21: Solving Multi-Step Rate Problems</p>

## Number Sense and Operations

**6.NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.**

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.NS.A.1</b></p> <p>Compute and interpret quotients of positive fractions.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsection.</i></p>
<p><b>6.NS.A.1.a</b></p> <p>Solve problems involving division of fractions by fractions.</p>	<p>6 M2 Lesson 6: Dividing a Whole Number by a Fraction</p> <p>6 M2 Lesson 7: Dividing a Fraction by a Whole Number</p> <p>6 M2 Lesson 8: Dividing Fractions by Making Common Denominators</p> <p>6 M2 Lesson 9: Dividing Fractions by Using Tape Diagrams</p> <p>6 M2 Lesson 10: Dividing Fractions by Using the Invert and Multiply Strategy</p> <p>6 M2 Lesson 11: Applications of Fraction Division</p> <p>6 M2 Lesson 12: Fraction Operations in a Real-World Situation</p>

## Number Sense and Operations

**6.NS.B Compute with non-negative multi-digit numbers, and find common factors and multiples.**

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.NS.B.2</b></p> <p>Demonstrate fluency with division of multi-digit whole numbers.</p>	<p>6 M2 Lesson 17: Partial Quotients</p> <p>6 M2 Lesson 18: The Standard Division Algorithm</p> <p>6 M2 Lesson 19: Expressing Quotients as Decimals</p> <p>6 M2 Lesson 20: Real-World Division Problems</p>

<p><b>Missouri Mathematics Learning Standards</b></p>	<p><b>Aligned Components of <i>Eureka Math</i><sup>2</sup></b></p>
<p><b>6.NS.B.3</b> Demonstrate fluency with addition, subtraction, multiplication and division of decimals.</p>	<p>6 M2 Lesson 13: Decimal Addition and Subtraction 6 M2 Lesson 14: Patterns in Multiplying Decimals 6 M2 Lesson 15: Decimal Multiplication 6 M2 Lesson 16: Applications of Decimal Operations 6 M2 Lesson 21: Dividing a Decimal by a Whole Number 6 M2 Lesson 22: Dividing a Decimal by a Decimal Greater Than 1 6 M2 Lesson 23: Dividing a Decimal by a Decimal Less Than 1 6 M2 Lesson 24: Living on Mars</p>
<p><b>6.NS.B.4</b> Find common factors and multiples.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.NS.B.4.a</b> Find the greatest common factor (GCF) and the least common multiple (LCM).</p>	<p>5 M1 Lesson 21: Express a composite number to 50 as a product of its prime factors. 6 M2 Lesson 1: Factors and Multiples 6 M2 Lesson 2: Divisibility 6 M2 Lesson 3: The Greatest Common Factor 6 M2 Lesson 4: The Least Common Multiple 6 M2 Lesson 5: The Euclidean Algorithm 6 M4 Lesson 13: The Distributive Property 6 M4 Lesson 14: Using the Distributive Property to Factor Expressions</p>

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<p><b>6.NS.B.4.b</b></p> <p>Use the distributive property to express a sum of two whole numbers with a common factor as a multiple of a sum of two whole numbers.</p>	<p>5 M1 Lesson 21: Express a composite number to 50 as a product of its prime factors.</p> <p>6 M2 Lesson 1: Factors and Multiples</p> <p>6 M2 Lesson 2: Divisibility</p> <p>6 M2 Lesson 3: The Greatest Common Factor</p> <p>6 M2 Lesson 4: The Least Common Multiple</p> <p>6 M2 Lesson 5: The Euclidean Algorithm</p> <p>6 M4 Lesson 13: The Distributive Property</p> <p>6 M4 Lesson 14: Using the Distributive Property to Factor Expressions</p>

### Number Sense and Operations

**6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.**

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.NS.C.5</b></p> <p>Use positive and negative numbers to represent quantities.</p>	<p>6 M3 Lesson 1: Positive and Negative Numbers</p> <p>6 M3 Lesson 4: Rational Numbers in Real-World Situations</p>
<p><b>6.NS.C.6</b></p> <p>Locate a rational number as a point on the number line.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>

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<p><b>6.NS.C.6.a</b></p> <p>Locate rational numbers on a horizontal or vertical number line.</p>	<p>6 M3 Lesson 3: Rational Numbers</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>6 M3 Lesson 15: Distance in the Coordinate Plane</p> <p>6 M3 Lesson 16: Figures in the Coordinate Plane</p> <p>6 M3 Lesson 17: Problem Solving with the Coordinate Plane</p>
<p><b>6.NS.C.6.b</b></p> <p>Write, interpret and explain problems of ordering of rational numbers.</p>	<p>6 M3 Lesson 5: Comparing Rational Numbers</p> <p>6 M3 Lesson 6: Ordering Rational Numbers</p>
<p><b>6.NS.C.6.c</b></p> <p>Understand that a number and its opposite (additive inverse) are located on opposite sides of zero on the number line.</p>	<p>6 M3 Lesson 2: Integers</p> <p>6 M3 Lesson 3: Rational Numbers</p> <p>6 M3 Lesson 4: Rational Numbers in Real-World Situations</p>
<p><b>6.NS.C.7</b></p> <p>Understand that the absolute value of a rational number is its distance from 0 on the number line.</p>	<p>6 M3 Lesson 5: Comparing Rational Numbers</p> <p>6 M3 Lesson 6: Ordering Rational Numbers</p> <p>6 M3 Lesson 7: 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>

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<p><b>6.NS.C.8</b></p> <p>Extend prior knowledge to generate equivalent representations of rational numbers between fractions, decimals and percentages (limited to terminating decimals and/or benchmark fractions of <math>\frac{1}{3}</math> and <math>\frac{2}{3}</math>).</p>	<p>6 M1 Lesson 22: Introduction to Percents</p>

### Expressions, Equations and Inequalities

**6.EE1.A** Apply and extend previous understandings of arithmetic to algebraic expressions.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.EE1.A.1</b></p> <p>Describe the difference between an expression and an equation.</p>	<p>6 M4 Lesson 17: Equations and Solutions</p>
<p><b>6.EE1.A.2</b></p> <p>Create and evaluate expressions involving variables and whole number exponents.</p>	<p>6 M4 Lesson 1: Expressions with Addition and Subtraction</p> <p>6 M4 Lesson 2: Expressions with Multiplication and Division</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>

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.EE1.A.2.a</b></p> <p>Identify parts of an expression using mathematical terminology.</p>	<p>6 M4 Lesson 7: Algebraic Expressions with Addition and Subtraction</p> <p>6 M4 Lesson 8: Algebraic Expressions with Addition, Subtraction, Multiplication, and Division</p> <p>6 M4 Lesson 9: Addition and Subtraction Expressions from Real-World Situations</p> <p>6 M4 Lesson 11: Modeling Real-World Situations with Expressions</p>
<p><b>6.EE1.A.2.b</b></p> <p>Evaluate expressions at specific values of the variables.</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>6 M5 Lesson 1: The Area of a Parallelogram</p> <p>6 M5 Lesson 3: The Area of a Triangle</p> <p>6 M5 Lesson 12: From Nets to Surface Area</p> <p>6 M5 Lesson 13: Surface Area in Real-World Situations</p> <p>6 M5 Lesson 14: Designing a Box</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p>
<p><b>6.EE1.A.2.c</b></p> <p>Evaluate non-negative rational number expressions.</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>6 M5 Lesson 1: The Area of a Parallelogram</p>

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<p><b>6.EE1.A.2.c</b> <i>continued</i></p>	<p>6 M5 Lesson 3: The Area of a Triangle</p> <p>6 M5 Lesson 12: From Nets to Surface Area</p> <p>6 M5 Lesson 13: Surface Area in Real-World Situations</p> <p>6 M5 Lesson 14: Designing a Box</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p>
<p><b>6.EE1.A.2.d</b></p> <p>Write and evaluate algebraic expressions.</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>6 M5 Lesson 1: The Area of a Parallelogram</p> <p>6 M5 Lesson 3: The Area of a Triangle</p> <p>6 M5 Lesson 12: From Nets to Surface Area</p> <p>6 M5 Lesson 13: Surface Area in Real-World Situations</p> <p>6 M5 Lesson 14: Designing a Box</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p>
<p><b>6.EE1.A.2.e</b></p> <p>Understand the meaning of the variable in the context of the situation.</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>6 M5 Lesson 1: The Area of a Parallelogram</p> <p>6 M5 Lesson 3: The Area of a Triangle</p> <p>6 M5 Lesson 12: From Nets to Surface Area</p>

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<p><b>6.EE1.A.2.e <i>continued</i></b></p>	<p>6 M5 Lesson 13: Surface Area in Real-World Situations</p> <p>6 M5 Lesson 14: Designing a Box</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p>
<p><b>6.EE1.A.3</b></p> <p>Identify and generate equivalent algebraic expressions using mathematical properties.</p>	<p>6 M4 Lesson 12: Applying Properties to Multiplication and Division Expressions</p> <p>6 M4 Lesson 13: The Distributive Property</p> <p>6 M4 Lesson 14: Using the Distributive Property to Factor Expressions</p> <p>6 M4 Lesson 15: Combining Like Terms by Using the Distributive Property</p> <p>6 M4 Lesson 16: Equivalent Algebraic Expressions</p> <p>6 M5 Lesson 4: Areas of Triangles in Real-World Situations</p> <p>6 M5 Lesson 6: Problem Solving with Area in the Coordinate Plane</p> <p>6 M5 Lesson 7: Area of Trapezoids and Other Polygons</p> <p>6 M5 Lesson 12: From Nets to Surface Area</p> <p>6 M5 Lesson 17: Problem Solving with Volume</p>

**Expressions, Equations and Inequalities****6.EE1.B Reason about and solve one-variable equations and inequalities.**

<b>Missouri Mathematics Learning Standards</b>	<b>Aligned Components of <i>Eureka Math</i><sup>2</sup></b>
<p><b>6.EE1.B.4</b></p> <p>Use substitution to determine whether a given number in a specified set makes a one-variable equation or inequality true.</p>	<p>6 M4 Lesson 17: Equations and Solutions</p> <p>6 M4 Lesson 18: Inequalities 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><b>6.EE1.B.5</b></p> <p>Understand that if any solutions exist, the solution set for an equation or inequality consists of values that make the equation or inequality true.</p>	<p>6 M4 Lesson 17: Equations and Solutions</p> <p>6 M4 Lesson 18: Inequalities 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><b>6.EE1.B.6</b></p> <p>Write and solve equations using variables to represent quantities, and understand the meaning of the variable in the context of the situation.</p>	<p>6 M4 Lesson 9: Addition and Subtraction Expressions from Real-World Situations</p> <p>6 M4 Lesson 10: Multiplication and Division Expressions from Real-World Situations</p> <p>6 M4 Lesson 11: Modeling Real-World Situations with Expressions</p> <p>6 M4 Lesson 16: Equivalent Algebraic Expressions</p>
<p><b>6.EE1.B.7</b></p> <p>Solve one-step linear equations in one variable involving non-negative rational numbers.</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> <p>6 M5 Lesson 2: The Area of a Right Triangle</p>

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<p><b>6.EE1.B.8</b> Recognize that inequalities may have infinitely many solutions.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.EE1.B.8.a</b> Write an inequality of the form <math>x &gt; c</math>, <math>x &lt; c</math>, <math>x \geq c</math>, or <math>x \leq c</math> to represent a constraint or condition.</p>	<p>6 M4 Lesson 18: Inequalities and Solutions</p>
<p><b>6.EE1.B.8.b</b> Graph the solution set of an inequality.</p>	<p>6 M4 Lesson 18: Inequalities and Solutions</p>

## Expressions, Equations and Inequalities

**6.EE1.C Represent and analyze quantitative relationships between dependent and independent variables.**

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<p><b>6.EE1.C.9</b></p> <p>Identify and describe relationships between two variables that change in relationship to one another.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.EE1.C.9.a</b></p> <p>Write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable.</p>	<p>6 M4 Lesson 22: Relationship Between Two Variables</p> <p>6 M4 Lesson 23: Graphs of Ratio Relationships</p> <p>6 M4 Lesson 24: Graphs of Non-Ratio Relationships</p> <p>6 M4 Lesson 25: The Statue of Liberty</p>
<p><b>6.EE1.C.9.b</b></p> <p>Analyze the relationship between the dependent and independent variables using graphs, tables and equations and relate these representations to each other.</p>	<p>6 M4 Lesson 22: Relationship Between Two Variables</p> <p>6 M4 Lesson 23: Graphs of Ratio Relationships</p> <p>6 M4 Lesson 24: Graphs of Non-Ratio Relationships</p> <p>6 M4 Lesson 25: The Statue of Liberty</p>

## Geometry and Measurement

### 6.GM.A Solve problems involving area, surface area and volume.

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<p><b>6.GM.A.1</b></p> <p>Find the area of polygons by composing or decomposing the shapes into rectangles or triangles.</p>	<p>6 M5 Lesson 1: The Area of a Parallelogram</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>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> <p>6 M5 Lesson 7: Areas of Trapezoids and Other Polygons</p> <p>6 M5 Lesson 8: Areas of Composite Figures in Real-World Situations</p>
<p><b>6.GM.A.2</b></p> <p>Find the volume of right rectangular prisms.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.GM.A.2.a</b></p> <p>Understand that the volume of a right rectangular prism can be found by filling the prism with multiple layers of the base.</p>	<p>6 M5 Lesson 15: Exploring Volume</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p> <p>6 M5 Lesson 17: Problem Solving with Volume</p> <p>6 M5 Lesson 18: Volumes of Composite Solids</p> <p>6 M5 Lesson 19: Volume and Surface Area in Real-World Situations</p>

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<p><b>6.GM.A.2.b</b></p> <p>Apply <math>V = l \cdot w \cdot h</math> and <math>V = Bh</math> to find the volume of right rectangular prisms.</p>	<p>6 M5 Lesson 15: Exploring Volume</p> <p>6 M5 Lesson 16: Applying Volume Formulas</p> <p>6 M5 Lesson 17: Problem Solving with Volume</p> <p>6 M5 Lesson 18: Volumes of Composite Solids</p> <p>6 M5 Lesson 19: Volume and Surface Area in Real-World Situations</p>
<p><b>6.GM.A.3</b></p> <p>Solve problems by graphing points in all four quadrants of the Cartesian coordinate plane.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.GM.A.3.a</b></p> <p>Understand signs of numbers in ordered pairs as indicating locations in quadrants of the Cartesian coordinate plane.</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><b>6.GM.A.3.b</b></p> <p>Recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</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><b>6.GM.A.3.c</b></p> <p>Find distances between points with the same first coordinate or the same second coordinate.</p>	<p>6 M3 Lesson 14: Modeling with the Coordinate Plane</p> <p>6 M3 Lesson 15: Distance in the Coordinate Plane</p> <p>6 M3 Lesson 16: Figures in the Coordinate Plane</p> <p>6 M3 Lesson 17: Problem Solving with the Coordinate Plane</p> <p>6 M5 Lesson 5: Perimeter and Area in the Coordinate Plane</p>

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<p><b>6.GM.A.3.d</b> Construct polygons in the Cartesian coordinate plane.</p>	<p>6 M5 Lesson 5: Perimeter and Area in the Coordinate Plane 6 M5 Lesson 6: Problem Solving with Area in the Coordinate Plane</p>
<p><b>6.GM.A.4</b> Solve problems using nets.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.GM.A.4.a</b> Represent three-dimensional figures using nets made up of rectangles and triangles.</p>	<p>6 M5 Lesson 9: Properties of Solids 6 M5 Lesson 10: Discovering Nets of Solids 6 M5 Lesson 11: Constructing Nets of Solids 6 M5 Lesson 12: From Nets to Surface Area 6 M5 Lesson 13: Surface Area in Real-World Situations 6 M5 Lesson 14: Designing a Box 6 M5 Lesson 19: Volume and Surface Area in Real-World Situations</p>
<p><b>6.GM.A.4.b</b> Use nets to find the surface area of three-dimensional figures whose sides are made up of rectangles and triangles.</p>	<p>6 M5 Lesson 9: Properties of Solids 6 M5 Lesson 10: Discovering Nets of Solids 6 M5 Lesson 11: Constructing Nets of Solids 6 M5 Lesson 12: From Nets to Surface Area 6 M5 Lesson 13: Surface Area in Real-World Situations 6 M5 Lesson 14: Designing a Box 6 M5 Lesson 19: Volume and Surface Area in Real-World Situations</p>

## Data Analysis, Statistics and Probability

### 6.DSP.A Develop understanding of statistical variability.

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<p><b>6.DSP.A.1</b></p> <p>Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</p>	<p>6 M6 Lesson 1: Posing Statistical Questions</p> <p>6 M6 Lesson 6: Selecting a Data Display</p> <p>6 M6 Lesson 17: Developing a Statistical Project</p>
<p><b>6.DSP.A.2</b></p> <p>Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread and overall shape.</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 9: Variability in a Data Distribution</p> <p>6 M6 Lesson 14: Using a Box Plot to Summarize a Distribution</p> <p>6 M6 Lesson 18: Connecting Graphical Representations and Summary Measures</p>
<p><b>6.DSP.A.3</b></p> <p>Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary from a single number.</p>	<p>6 M6 Lesson 7: Using the Mean to Describe the Center</p> <p>6 M6 Lesson 8: The Mean as a Balance Point</p> <p>6 M6 Lesson 9: Variability in a Data Distribution</p> <p>6 M6 Lesson 10: The Mean Absolute Deviation</p> <p>6 M6 Lesson 11: Using the 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 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>

## Data Analysis, Statistics and Probability

### 6.DSP.B Summarize and describe distributions.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.DSP.B.4</b> Display and interpret data.</p>	<p>5 Data Talk: Eye Colors of the US Population                      5 Data Talk: American Pastimes                      6 M6 Lesson 3: Creating a Dot Plot                      6 M6 Lesson 4: Creating a Histogram                      6 M6 Lesson 5: Comparing Data Displays                      6 M6 Lesson 6: Selecting a Data Display                      6 M6 Lesson 14: Using a Box Plot to Summarize a Distribution                      6 M6 Lesson 15: More Practice with Box Plots                      6 M6 Lesson 16: Interpreting Box Plots                      6 M6 Lesson 19: Comparing Data Distributions                      6 M6 Lesson 22: Presenting Statistical Projects                      7 Data Investigation: A Typical Day                      7 Data Investigation: Language Diversity</p>

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<p><b>6.DSP.B.4.a</b></p> <p>Use dot plots, histograms and box plots to display and interpret numerical data.</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 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>
<p><b>6.DSP.B.4.b</b></p> <p>Create and interpret circle graphs.</p>	<p>5 Data Talk: Eye Colors of the US Population</p> <p>5 Data Talk: American Pastimes</p> <p>7 Data Investigation: A Typical Day</p> <p>7 Data Investigation: Language Diversity</p>
<p><b>6.DSP.B.5</b></p> <p>Summarize numerical data sets in relation to the context.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>6.DSP.B.5.a</b></p> <p>Report the number of observations.</p>	<p>6 M6 Lesson 2: Describing a Data Distribution</p>
<p><b>6.DSP.B.5.b</b></p> <p>Describe the nature of the attribute under investigation, including how it was measured and its units of measurement.</p>	<p>6 M6 Lesson 1: Posing Statistical Questions</p> <p>6 M6 Lesson 5: Comparing Data Displays</p> <p>6 M6 Lesson 17: Developing a Statistical Project</p> <p>6 M6 Lesson 21: Comparing Measures of Variability</p>

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>6.DSP.B.5.c</b></p> <p>Give quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context of the data.</p>	<p>6 M6 Lesson 7: Using the Mean to Describe the Center</p> <p>6 M6 Lesson 8: The Mean as a Balance Point</p> <p>6 M6 Lesson 10: The Mean Absolute Deviation</p> <p>6 M6 Lesson 11: Using the 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 21: Comparing Measures of Variability</p>
<p><b>6.DSP.B.5.d</b></p> <p>Analyze the choice of measures of center and variability based on the shape of the data distribution and/or the context of the data.</p>	<p>6 M6 Lesson 20: Choosing a Measure of Center</p>