Grade 7 | Maryland College and Career Ready Standards (2025) Correlation to *Eureka Math² Maryland*

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 Math²*®, 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 Math²* 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 Math² 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 Math²* 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.

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.1 Make sense of problems and persevere in solving them.	7 M1 Lesson 11: Constant Rates 7 M1 Lesson 14: Extreme Bicycles 7 M2 Lesson 4: KAKOOMA® 7 M2 Lesson 11: Subtracting Rational Numbers, Part 2 7 M3 Lesson 11: Dominoes and Dominoes 7 M3 Lesson 15: Solving Equations Fluently 7 M4 Lesson 15: Watering a Lawn 7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition 7 M5 Lesson 6: Finding Commission 7 M5 Lesson 7: Finding Discounts 7 M5 Lesson 9: Tax as a Fee 7 M5 Lesson 13: What Is the Best Deal? 7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease 7 M5 Lesson 21: Making Money, Day 2 7 M6 Lesson 15: Sampling Variability and the Effect of Sample Size
MP.2 Reason abstractly and quantitatively.	7 M1 Lesson 2: Exploring Tables of Proportional Relationships 7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships 7 M1 Lesson 6: Identifying Proportional Relationships in Written Descriptions 7 M1 Lesson 10: Applying Proportional Reasoning 7 M2 Lesson 8: Subtracting Integers, Part 1 7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M3 Lesson 5: Factoring Expressions 7 M3 Lesson 12: Solving Problems Algebraically and Arithmetically

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.2 ***continued***	7 M3 Lesson 16: Using Equations to Solve Rate Problems 7 M3 Lesson 21: Solving Two-Step Inequalities 7 M3 Lesson 23: Inequalities vs. Equations 7 M5 Lesson 10: Percent Increase 7 M5 Lesson 11: Percent Decrease 7 M5 Lesson 13: What Is the Best Deal? 7 M5 Lesson 19: Applying Percent Error 7 M5 Lesson 23: Percents of Percents 7 M6 Lesson 1: What Is Probability? 7 M6 Lesson 3: Outcomes of Chance Experiments 7 M6 Lesson 8: Picking Blue 7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean
MP.3 Construct viable arguments and critique the reasoning of others.	7 M1 Lesson 16: Using a Scale Factor 7 M1 Lesson 20: Creating Multiple Scale Drawings 7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient 7 M2 Lesson 14: Understanding the Product of Two Negative Numbers 7 M3 Lesson 1: Equivalent Expressions 7 M3 Lesson 2: The Distributive Property and the Tabular Model 7 M5 Lesson 4: Proportion and Percent 7 M5 Lesson 8: Determining Fees 7 M6 Lesson 17: Comparing Sample Means

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.4 Model with mathematics.	7 M1 Lesson 7: Handstand Sprint 7 M1 Lesson 19: Scale and Scale Factor 7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2 7 M3 Lesson 11: Dominoes and Dominoes 7 M4 Lesson 15: Watering a Lawn 7 M4 Lesson 26: Designing a Fish Tank 7 M5 Lesson 20: Making Money, Day 1 7 M6 Lesson 12-1: Selecting a Sample
MP.5 Use appropriate tools strategically.	7 M1 Lesson 7: Handstand Sprint 7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2 7 M1 Lesson 14: Extreme Bicycles 7 M2 Lesson 6: Adding Rational Numbers 7 M2 Lesson 21: Comparing and Ordering Rational Numbers 7 M5 Lesson 3: Percent as a Rate per 100 7 M5 Lesson 5: Common Denominators or Common Numerators 7 M6 Lesson 16-1: Comparing Samples
MP.6 Attend to precision.	7 M1 Lesson 17: Finding Actual Distances from a Scale Drawing 7 M2 Lesson 12: The Integer Game 7 M2 Lesson 16: Exponential Expressions with Rational Numbers 7 M2 Lesson 24: Order of Operations with Rational Numbers 7 M3 Lesson 3: The Distributive Property and Combining Like Terms 7 M3 Lesson 11-1: Solving Equations with If–Then Moves

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.6 ***continued***	7 M3 Lesson 18: Understanding Inequalities and Their Solutions (Optional) 7 M3 Lesson 22: Solving Problems Involving Inequalities 7 M4 Lesson 9: Constructing a Circle 7 M4 Lesson 17: Surface Area of Right Rectangular and Right Triangular Prisms 7 M4 Lesson 20: Surface Area of Right Pyramids 7 M4 Lesson 21: Surface Area of Other Solids 7 M4 Lesson 26-2: Volumes of Pyramids and Cones 7 M4 Lesson 26-3: Volume of Spheres 7 M5 Lesson 12: More Discounts 7 M5 Lesson 24: Counting Problems 7 M6 Lesson 2: Empirical Probability 7 M6 Lesson 4: Theoretical Probability 7 M6 Lesson 11: Populations and Samples 7 M6 Lesson 13: Variability Between Samples 7 M6 Lesson 16: Sampling Variability When Estimating a Population Proportion
MP.7 Look for and make use of structure.	7 M1 Lesson 8: Relating Representations of Proportional Relationships 7 M1 Lesson 9: Comparing Proportional Relationships 7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1 7 M1 Lesson 15: Scale Drawings 7 M2 Lesson 7: What Subtraction Means 7 M2 Lesson 10: Subtracting Rational Numbers, Part 1 7 M2 Lesson 13: Understanding Multiples of Negative Numbers

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.7 ***continued***	7 M2 Lesson 15: Multiplying Rational Numbers
	7 M2 Lesson 17: Understanding Negative Dividends
	7 M2 Lesson 18: Understanding Negative Divisors
	7 M2 Lesson 22: Multiplication and Division Expressions
	7 M2 Lesson 23: Properties of Operations with Rational Numbers
	7 M3 Lesson 4: Adding and Subtracting Expressions
	7 M3 Lesson 6: Comparing Expressions
	7 M3 Lesson 13: Solving Equations—Puzzles
	7 M3 Lesson 14: Solving Equations—Scavenger Hunt
	7 M3 Lesson 17: Using Equations to Solve Problems
	7 M3 Lesson 19: Using Equations to Solve Inequalities (Optional)
	7 M4 Lesson 11: The Inside of a Circle
	7 M4 Lesson 12: Exploring the Area and Circumference of a Circle
	7 M4 Lesson 13: Finding Areas of Circular Regions
	7 M4 Lesson 14: Composite Figures with Circular Regions
	7 M4 Lesson 18: Surface Area of Right Prisms
	7 M4 Lesson 22-1: Understanding Planes and Cross Sections
	7 M4 Lesson 23: Cross Section Scavenger Hunt
	7 M4 Lesson 24: Volume of Prisms
	7 M4 Lesson 25: Volume of Composite Solids
	7 M5 Lesson 2: Racing for Percents
	7 M5 Lesson 15: Tips and Taxes
	7 M5 Lesson 16: Markups and Discounts

© 2027 Great Minds PBC | greatminds.org

Standards for Mathematical Practice	Aligned Components of *Eureka Math² Maryland*
MP.7 ***continued***	7 M5 Lesson 17: Simple Interest and Proportionality 7 M5 Lesson 22: Making Mixtures 7 M6 Lesson 6: Outcomes That Are Not Equally Likely
MP.8 Look for and express regularity in repeated reasoning.	7 M1 Lesson 1: An Experiment with Ratios and Rates 7 M1 Lesson 3: Identifying Proportional Relationships in Tables 7 M1 Lesson 4: Exploring Graphs of Proportional Relationships 7 M1 Lesson 18: Relating Areas of Scale Drawings 7 M2 Lesson 1: Combining Opposites 7 M2 Lesson 2: Adding Integers 7 M2 Lesson 3: Adding Integers Efficiently 7 M2 Lesson 9: Subtracting Integers, Part 2 7 M2 Lesson 19: Rational Numbers as Decimals, Part 1 7 M2 Lesson 20: Rational Numbers as Decimals, Part 2 7 M3 Lesson 20: Preserving and Reversing 7 M4 Lesson 10: The Outside of a Circle 7 M4 Lesson 19: Surface Area of Cylinder (Optional) 7 M4 Lesson 26-1: Volume of Cylinders 7 M5 Lesson 1: Proportionality and Scale Factor 7 M5 Lesson 18: Simple Interest—Solving for Unknown Values 7 M6 Lesson 7-1: The Law of Large Numbers

© 2027 Great Minds PBC | greatminds.org

Number and Operation Sense

7.NOS.A Use structure and representations to reason with rational numbers.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.NOS.A.1 Add and subtract rational numbers using multiple strategies and representations.	7 M2 Lesson 4: KAKOOMA® 7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient 7 M2 Lesson 6: Adding Rational Numbers 7 M2 Lesson 9: Subtracting Integers, Part 2 7 M2 Lesson 10: Subtracting Rational Numbers, Part 1 7 M2 Lesson 11: Subtracting Rational Numbers, Part 2 7 M2 Lesson 12: The Integer Game 7 M2 Lesson 23: Properties of Operations with Rational Numbers 7 M2 Lesson 24: Order of Operations with Rational Numbers
7.NOS.A.1.a Describe situations in which opposite quantities combine to make 0.	7 M2 Lesson 1: Combining Opposites 7 M2 Lesson 12: The Integer Game
7.NOS.A.1.b Model the addition of rational numbers as movement along a number line, where the direction and distance depend on the sign and magnitude of the addend. Show that a number and its opposite have a sum of 0 (are additive inverses).	7 M2 Lesson 1: Combining Opposites 7 M2 Lesson 2: Adding Integers 7 M2 Lesson 3: Adding Integers Efficiently 7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient 7 M2 Lesson 6: Adding Rational Numbers

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.NOS.A.1.c Rewrite subtraction as addition using the additive inverse ($p - q = p + (-q)$). Use strategies such as number lines and applying absolute value of the difference to determine the distance between two rational numbers and solve problems in context.	7 M2 Lesson 7: What Subtraction Means 7 M2 Lesson 8: Subtracting Integers, Part 1 7 M2 Lesson 9: Subtracting Integers, Part 2 7 M2 Lesson 10: Subtracting Rational Numbers, Part 1 7 M2 Lesson 11: Subtracting Rational Numbers, Part 2
7.NOS.A.1.d Model and solve multistep contextual problems involving addition and subtraction of rational numbers, using efficient and flexible strategies.	7 M2 Lesson 3: Adding Integers Efficiently 7 M2 Lesson 8: Subtracting Integers, Part 1 7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2
7.NOS.A.2 Multiply and divide rational numbers using multiple strategies and representations.	7 M2 Lesson 23: Properties of Operations with Rational Numbers 7 M2 Lesson 24: Order of Operations with Rational Numbers
7.NOS.A.2.a Model multiplication of rational numbers using number lines, arrays, or area models to show how properties of operations (e.g., the distributive property) lead to rules for signed number multiplication, including $(-1) \times (-1) = 1$.	7 M2 Lesson 13: Understanding Multiples of Negative Numbers 7 M2 Lesson 14: Understanding the Product of Two Negative Numbers 7 M2 Lesson 15: Multiplying Rational Numbers 7 M2 Lesson 16: Exponential Expressions with Rational Numbers

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.NOS.A.2.b Interpret quotients of rational numbers in context and represent division of signed numbers in different forms, such as $-\frac{p}{q}=\frac{-p}{q}=\frac{p}{-q}$ when the divisor is not zero.	7 M2 Lesson 18: Understanding Negative Divisors
7.NOS.A.2.c Use properties of operations to multiply and divide rational numbers flexibly and efficiently.	7 M2 Lesson 13: Understanding Multiples of Negative Numbers 7 M2 Lesson 14: Understanding the Product of Two Negative Numbers 7 M2 Lesson 15: Multiplying Rational Numbers 7 M2 Lesson 16: Exponential Expressions with Rational Numbers 7 M2 Lesson 17: Understanding Negative Dividends 7 M2 Lesson 18: Understanding Negative Divisors 7 M2 Lesson 22: Multiplication and Division Expressions 7 M2 Lesson 24: Order of Operations with Rational Numbers
7.NOS.A.2.d Analyze the decimal representation of a quotient resulting from dividing rational numbers to determine whether it terminates or repeats and use this pattern to explain why all rational numbers have decimal forms that either terminate or repeat.	7 M2 Lesson 19: Rational Numbers as Decimals, Part 1 7 M2 Lesson 20: Rational Numbers as Decimals, Part 2 7 M2 Lesson 21: Comparing and Ordering Rational Numbers

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.NOS.A.2.e Model and solve multistep contextual problems involving multiplication and division of rational numbers, using efficient and flexible strategies.	7 M2 Lesson 14: Understanding the Product of Two Negative Numbers 7 M2 Lesson 21: Comparing and Ordering Rational Numbers 7 M2 Lesson 22: Multiplication and Division Expressions 7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2
7.NOS.A.3 Solve multistep problems involving positive and negative rational numbers in any form (i.e., fractions, decimals, percents) using all four operations.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.NOS.A.3.a Apply properties of operations to efficiently compute with rational numbers and convert between forms when appropriate to support problem solving.	7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2 7 M3 Lesson 11: Dominoes and Dominoes 7 M3 Lesson 16: Using Equations to Solve Rate Problems 7 M3 Lesson 17: Using Equations to Solve Problems
7.NOS.A.3.b Evaluate the reasonableness of solutions using estimation, mental math, and understanding of the context.	7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M3 Lesson 11: Dominoes and Dominoes 7 M3 Lesson 17: Using Equations to Solve Problems

© 2027 Great Minds PBC | greatminds.org

Algebraic Thinking

7.AT.A Represent and reason about proportional relationships to solve problems.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.A.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.	7 M1 Lesson 1: An Experiment with Ratios and Rates 7 M1 Lesson 2: Exploring Tables of Proportional Relationships 7 M1 Lesson 3: Identifying Proportional Relationships in Tables
7.AT.A.2 Identify proportional relationships between quantities.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.AT.A.2.a Determine whether two quantities are in a proportional relationship, for example, by testing for equivalent ratios in a table or by graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	7 M1 Lesson 1: An Experiment with Ratios and Rates 7 M1 Lesson 2: Exploring Tables of Proportional Relationships 7 M1 Lesson 3: Identifying Proportional Relationships in Tables 7 M1 Lesson 4: Exploring Graphs of Proportional Relationships 7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships 7 M1 Lesson 6: Identifying Proportional Relationships in Written Descriptions 7 M1 Lesson 14: Extreme Bicycles

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.A.2.b Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and narrative descriptions of proportional relationships.	7 M1 Lesson 4: Exploring Graphs of Proportional Relationships 7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships 7 M1 Lesson 6: Identifying Proportional Relationships in Written Descriptions 7 M1 Lesson 8: Relating Representations of Proportional Relationships 7 M1 Lesson 9: Comparing Proportional Relationships 7 M1 Lesson 11: Constant Rates 7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1 7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2 7 M1 Lesson 16: Using a Scale Factor 7 M1 Lesson 18: Relating Areas of Scale Drawings
7.AT.A.3 Represent proportional relationships between quantities.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.AT.A.3.a Represent proportional relationships using equations.	7 M1 Lesson 2: Exploring Tables of Proportional Relationships 7 M1 Lesson 3: Identifying Proportional Relationships in Tables 7 M1 Lesson 8: Relating Representations of Proportional Relationships 7 M1 Lesson 10: Applying Proportional Reasoning 7 M1 Lesson 11: Constant Rates 7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1 7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2 7 M5 Lesson 1: Proportionality and Scale Factor 7 M5 Lesson 4: Proportion and Percent 7 M5 Lesson 5: Common Denominators or Common Numerators

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.A.3.b Explain what a point (x, y) on the graph of a proportional relationship represents in terms of the context, with special attention to the points $(0, 0)$ and $(1, r)$, where r is the unit rate.	7 M1 Lesson 4: Exploring Graphs of Proportional Relationships 7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships 7 M1 Lesson 9: Comparing Proportional Relationships
7.AT.A.4 Solve ratio and percent problems in context (e.g., simple interest, tax, markups and markdowns, tips, commissions, fees, percent increase or decrease, and percent error) by applying proportional reasoning.	7 M1 Lesson 7: Handstand Sprint 7 M1 Lesson 10: Applying Proportional Reasoning 7 M1 Lesson 11: Constant Rates 7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1 7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2 7 M5 Lesson 2: Racing for Percents 7 M5 Lesson 3: Percent as a Rate per 100 7 M5 Lesson 4: Proportion and Percent 7 M5 Lesson 5: Common Denominators or Common Numerators 7 M5 Lesson 6: Finding Commission 7 M5 Lesson 7: Finding Discounts 7 M5 Lesson 8: Determining Fees 7 M5 Lesson 9: Tax as a Fee 7 M5 Lesson 10: Percent Increase 7 M5 Lesson 11: Percent Decrease 7 M5 Lesson 12: More Discounts 7 M5 Lesson 13: What Is the Best Deal?

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.A.4 ***continued***	7 M5 Lesson 15: Tips and Taxes 7 M5 Lesson 16: Markups and Discounts 7 M5 Lesson 17: Simple Interest and Proportionality 7 M5 Lesson 18: Simple Interest—Solving for Unknown Values 7 M5 Lesson 19: Applying Percent Error 7 M5 Lesson 20: Making Money, Day 1 7 M5 Lesson 21: Making Money, Day 2 7 M5 Lesson 22: Making Mixtures 7 M5 Lesson 23: Percents of Percents

© 2027 Great Minds PBC | greatminds.org

Algebraic Thinking

7.AT.B Look for and make use of structure to rewrite expressions in equivalent forms and reason about their properties.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.B.5 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	7 M3 Lesson 1: Equivalent Expressions 7 M3 Lesson 2: The Distributive Property and the Tabular Model 7 M3 Lesson 3: The Distributive Property and Combining Like Terms 7 M3 Lesson 4: Adding and Subtracting Expressions 7 M3 Lesson 5: Factoring Expressions 7 M3 Lesson 6: Comparing Expressions
7.AT.B.6 Rewrite an expression in different forms to shed light on the represented context and how the quantities in it are related.	7 M3 Lesson 2: The Distributive Property and the Tabular Model 7 M3 Lesson 4: Adding and Subtracting Expressions 7 M3 Lesson 5: Factoring Expressions 7 M3 Lesson 6: Comparing Expressions 7 M5 Lesson 10: Percent Increase 7 M5 Lesson 11: Percent Decrease 7 M5 Lesson 12: More Discounts 7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease 7 M5 Lesson 15: Tips and Taxes 7 M5 Lesson 16: Markups and Discounts 7 M5 Lesson 23: Percents of Percents

© 2027 Great Minds PBC | greatminds.org

Algebraic Thinking

7.AT.C Model with and solve equations and inequalities.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.C.7 Analyze contextual situations to determine whether an equation or inequality best represents the relationship between quantities. Justify the choice based on the context.	7 M3 Lesson 23: Inequalities vs. Equations
7.AT.C.8 Use variables to represent quantities and write and solve equations to model and reason about relationships in context.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.AT.C.8.a Write equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers.	7 M3 Lesson 11: Dominoes and Dominoes 7 M3 Lesson 12: Solving Problems Algebraically and Arithmetically 7 M3 Lesson 13: Solving Equations—Puzzles 7 M3 Lesson 16: Using Equations to Solve Rate Problems 7 M3 Lesson 17: Using Equations to Solve Problems 7 M3 Lesson 23: Inequalities vs. Equations
7.AT.C.8.b Solve equations of these forms flexibly and efficiently. Explain the solution process and how it connects to the original statement of equality.	7 M3 Lesson 11-1: Solving Equations with If–Then Moves 7 M3 Lesson 12: Solving Problems Algebraically and Arithmetically 7 M3 Lesson 13: Solving Equations—Puzzles 7 M3 Lesson 14: Solving Equations—Scavenger Hunt 7 M3 Lesson 15: Solving Equations Fluently 7 M3 Lesson 16: Using Equations to Solve Rate Problems

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.AT.C.8.c Solve word problems leading to equations of these forms and interpret the solution in terms of the context.	7 M3 Lesson 12: Solving Problems Algebraically and Arithmetically 7 M3 Lesson 16: Using Equations to Solve Rate Problems
7.AT.C.9 Use variables to represent quantities and write and solve inequalities to model and reason about constraints and conditions in context.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.AT.C.9.a Write inequalities of the form $px + q > r$ or $px + q < r$, where p, q, and r are specific rational numbers.	7 M3 Lesson 21: Solving Two-Step Inequalities 7 M3 Lesson 22: Solving Problems Involving Inequalities 7 M3 Lesson 23: Inequalities vs. Equations
7.AT.C.9.b Solve inequalities of these forms and graph the solution set on a number line.	7 M3 Lesson 20: Preserving and Reversing 7 M3 Lesson 21: Solving Two-Step Inequalities 7 M3 Lesson 22: Solving Problems Involving Inequalities
7.AT.C.9.c Interpret the solution set in terms of the context by describing what values are possible or reasonable in the given situation.	7 M3 Lesson 21: Solving Two-Step Inequalities 7 M3 Lesson 22: Solving Problems Involving Inequalities 7 M3 Lesson 23: Inequalities vs. Equations

© 2027 Great Minds PBC | greatminds.org

Geometric Reasoning and Measurement

7.GR.A Use structure and representation to analyze geometric figures.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.GR.A.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	7 M1 Lesson 15: Scale Drawings 7 M1 Lesson 16: Using a Scale Factor 7 M1 Lesson 17: Finding Actual Distances from a Scale Drawing 7 M1 Lesson 18: Relating Areas of Scale Drawings 7 M1 Lesson 19: Scale and Scale Factor 7 M1 Lesson 20: Creating Multiple Scale Drawings 7 M5 Lesson 1: Proportionality and Scale Factor 7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease
7.GR.A.2 Describe the two-dimensional figures that result from slicing three-dimensional figures (e.g., right rectangular prisms, right cylinders) with a plane. Use the resulting shapes to explain how the structure of the solid connects to volume and surface area.	7 M4 Lesson 22-1: Understanding Planes and Cross Sections 7 M4 Lesson 23: Cross Section Scavenger Hunt 7 M4 Lesson 24: Volume of Prisms

© 2027 Great Minds PBC | greatminds.org

Geometric Reasoning and Measurement

7.GR.B Reason with and about geometric formulas to solve problems and justify solutions in context.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.GR.B.3 Apply the formulas for the area and circumference of a circle to solve problems in context. Use informal reasoning and visual models to explain the relationship between the circumference and area of a circle.	7 M4 Lesson 10: The Outside of a Circle 7 M4 Lesson 11: The Inside of a Circle 7 M4 Lesson 12: Exploring the Area and Circumference of a Circle 7 M4 Lesson 13: Finding Areas of Circular Regions 7 M4 Lesson 14: Composite Figures with Circular Regions 7 M4 Lesson 15: Watering a Lawn
7.GR.B.4 Solve mathematical problems with and without context involving area, surface area, and volume of two- and three-dimensional objects.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.GR.B.4.a Solve problems involving area, surface area, and volume of polygonal figures and polyhedral solids, including triangles, quadrilaterals, other polygons, cubes, right prisms, and pyramids—figures defined by edges and flat faces.	7 M4 Lesson 14: Composite Figures with Circular Regions 7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition 7 M4 Lesson 17: Surface Area of Right Rectangular and Right Triangular Prisms 7 M4 Lesson 18: Surface Area of Right Prisms 7 M4 Lesson 20: Surface Area of Right Pyramids 7 M4 Lesson 21: Surface Area of Other Solids 7 M4 Lesson 24: Volume of Prisms 7 M4 Lesson 25: Volume of Composite Solids 7 M4 Lesson 26: Designing a Fish Tank 7 M4 Lesson 26-2: Volumes of Pyramids and Cones

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.GR.B.4.b Solve problems involving volume of curved-surface solids, including cones, cylinders, and spheres—figures without edges.	7 M4 Lesson 26-1: Volume of Cylinders 7 M4 Lesson 26-2: Volumes of Pyramids and Cones 7 M4 Lesson 26-3: Volume of Spheres
7.GR.B.4.c Interpret and justify solutions in context by comparing different geometric representations, estimating or checking for reasonableness, and explaining how the result applies to the context.	7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition 7 M4 Lesson 18: Surface Area of Right Prisms 7 M4 Lesson 20: Surface Areas of Right Pyramids 7 M4 Lesson 21: Surface Area of Other Solids 7 M4 Lesson 25: Volume of Composite Solids 7 M4 Lesson 26: Designing a Fish Tank

© 2027 Great Minds PBC | greatminds.org

Reasoning with Data, Statistics, and Probability

7.DS.A Make sense of statistical inquiry.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.A.1 Determine when generalizations about a population are appropriate based on how the sample was selected.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.DS.A.1.a Decide whether a sample is representative of a population by explaining how it was selected and how that selection affects the accuracy of conclusions.	7 M6 Lesson 11: Populations and Samples 7 M6 Lesson 12-1: Selecting a Sample 7 M6 Lesson 13: Variability Between Samples 7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean
7.DS.A.1.b Explain how a random sample increases the likelihood that the sample represents the population.	7 M6 Lesson 11: Populations and Samples 7 M6 Lesson 12-1: Selecting a Sample
7.DS.A.2 Use data from random samples to make and evaluate estimates or predictions about a population.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.DS.A.2.a Use data from a single random sample to estimate an unknown characteristic of a population.	7 M6 Lesson 13: Variability Between Samples 7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean 7 M6 Lesson 15: Sampling Variability and the Effect of Sample Size 7 M6 Lesson 16: Sampling Variability When Estimating a Population Proportion

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.A.2.b Generate and compare multiple random samples of the same size and use the variability across samples to assess how reliable an estimate or prediction is.	7 M6 Lesson 13: Variability Between Samples

© 2027 Great Minds PBC | greatminds.org

Reasoning with Data, Statistics, and Probability

7.DS.B Describe, analyze, and compare data using visual and numerical representations to model situations and draw inferences.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.B.3 Compare two numerical data distributions using visual displays and numerical measures to draw inferences about differences between populations.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.DS.B.3.a Use histograms and other visualizations to describe similarities and differences in the range, shape, and clustering of the data sets.	7 M6 Lesson 16-1: Comparing Samples 7 M6 Lesson 17: Comparing Sample Means
7.DS.B.3.b Use measures of center (e.g., mean or median) and measures of variability (e.g., range or interquartile range) to describe the size and significance of the difference between the distributions.	7 M6 Lesson 16-1: Comparing Samples 7 M6 Lesson 17: Comparing Sample Means
7.DS.B.3.c Use both visual and numerical comparisons to describe how different the two groups are and whether the difference is meaningful in the context of the data.	7 M6 Lesson 16-1: Comparing Samples 7 M6 Lesson 17: Comparing Sample Means

© 2027 Great Minds PBC | greatminds.org

Reasoning with Data, Statistics, and Probability

7.DS.C Model and analyze probability to interpret chance events, compare models with observed data, and make predictions.

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.C.4 Explain that a probability of 0 means the event is impossible, 1 means it is certain, and values closer to 0 or 1 indicate how unlikely or likely the event is. Use this understanding to estimate the probability of chance events based on knowledge about the context, and compare the likelihood of different events.	7 M6 Lesson 1: What Is Probability?
7.DS.C.5 Understand and apply long-run relative frequency to approximate probabilities and make predictions about chance events.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.DS.C.5.a Use data collection or simulation to approximate the probability of a chance event by observing its long-run relative frequency.	7 M6 Lesson 2: Empirical Probability 7 M6 Lesson 3: Outcomes of Chance Experiments 7 M6 Lesson 6: Outcomes That Are Not Equally Likely 7 M6 Lesson 7-1: The Law of Large Numbers 7 M6 Lesson 8: Picking Blue

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.C.5.b Use a known or estimated probability to evaluate whether the number of outcomes in a given number of simulation trials is reasonable.	7 M6 Lesson 6: Outcomes That Are Not Equally Likely 7 M6 Lesson 8: Picking Blue
7.DS.C.5.c Use visual representations (e.g., bar graphs, circle graphs) to compare and interpret probabilities.	7 M6 Lesson 7-1: The Law of Large Numbers
7.DS.C.6 Develop and use probability models to find probabilities of events and compare them to observed results.	*This standard is fully addressed by the lessons aligned to its subsections.*
7.DS.C.6.a Create a uniform probability model for situations where outcomes are equally likely and use the model to calculate the probability of an event.	7 M6 Lesson 4: Theoretical Probability 7 M6 Lesson 7-1: The Law of Large Numbers
7.DS.C.6.b Create a probability model using observed frequencies and use it to estimate the probability of an event.	7 M6 Lesson 7-1: The Law of Large Numbers 7 M6 Lesson 8: Picking Blue

© 2027 Great Minds PBC | greatminds.org

Maryland College and Career Ready Standards	Aligned Components of *Eureka Math² Maryland*
7.DS.C.6.c Compare probabilities from a model to observed data and explain possible reasons for any differences.	7 M6 Lesson 7-1: The Law of Large Numbers

© 2027 Great Minds PBC | greatminds.org