



# Grade 7 | Idaho Mathematics Content Standards Correlation to Eureka Math<sup>2®</sup>

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*<sup>2®</sup>, 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*<sup>2</sup> 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<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 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 Math*<sup>2</sup> 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.

# **Standards for Mathematical Practice**

# Aligned Components of Eureka Math<sup>2</sup>

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

# **Ratios and Proportional Relationships**

7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.

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# Aligned Components of Eureka Math<sup>2</sup>

7.RP.A.1	7 M1 Lesson 1: An Experiment with Ratios and Rates		
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 2: Exploring Tables of Proportional Relationships 7 M1 Lesson 3: Identifying Proportional Relationships in Tables		
7.RP.A.2  Recognize and represent proportional relationships between quantities.	This standard is fully addressed by the lessons aligned to its subsections.		
7.RP.A.2.a	7 M1 Topic A: Understanding Proportional Relationships		
Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	7 M1 Lesson 14: Extreme Bicycles		
7.RP.A.2.b	7 M1 Lesson 4: Exploring Graphs of Proportional Relationships		
Identify the constant of proportionality in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. Recognize the constant of proportionality as both the unit rate and as the multiplicative comparison between two quantities.	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		

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7.RP.A.2.b continued	7 M1 Lesson 16: Using a Scale Factor 7 M1 Lesson 18: Relating Areas of Scale Drawings		
7.RP.A.2.c	7 M1 Lesson 2: Exploring Tables of Proportional Relationships		
Represent proportional relationships	7 M1 Lesson 3: Identifying Proportional Relationships in Tables		
by equations.	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		
7.RP.A.2.d	7 M1 Lesson 4: Exploring Graphs of Proportional Relationships		
Explain what a point $(x, y)$ on the graph	7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships		
of a proportional relationship means	7 M1 Lesson 9: Comparing Proportional Relationships		
in terms of the situation, with special attention to the points $(0,0)$ and $(1,r)$			
where $r$ is the unit rate.			
7.RP.A.3	7 M1 Lesson 7: Handstand Sprint		
Use proportional relationships to solve multi-step ratio, rate, and	7 M1 Lesson 10: Applying Proportional Reasoning		
	7 M1 Lesson 11: Constant Rates		
percent problems.	7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1		
	7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2		

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7.RP.A.3 continued	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 Topic B: Part of 100
	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?
	7 M5 Topic D: Applications of Percent
	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

# **The Number System**

7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

# Idaho Mathematics Content Standards

# Aligned Components of Eureka Math<sup>2</sup>

7.NS.A.1	This standard is fully addressed by the lessons aligned to its subsections.	
Apply and extend previous understandings of addition and subtraction to add and subtract integers and other rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.		
7.NS.A.1.a	7 M2 Lesson 1: Combining Opposites	
Describe situations in which opposite quantities combine to make zero.	7 M2 Lesson 12: The Integer Game	
7.NS.A.1.b	7 M2 Lesson 1: Combining Opposites	
Understand $p+q$ as the number located a distance $ q $ from $p$ , in the positive or negative direction depending on whether $q$ is positive or negative. Show that	<ul> <li>7 M2 Lesson 2: Adding Integers</li> <li>7 M2 Lesson 3: Adding Integers Efficiently</li> <li>7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient</li> </ul>	
a number and its opposite are additive inverses because they have a sum of 0 (e.g., $12.5 + (-12.5) = 0$ ). Interpret sums of rational numbers by describing real-world contexts.	7 M2 Lesson 6: Adding Rational Numbers 7 M2 Lesson 8: Subtracting Integers, Part 1	

# Aligned Components of Eureka Math<sup>2</sup>

7.NS.A.1.c	7 M2 Lesson 7: What Subtraction Means
Understand subtraction of rational numbers as adding the additive inverse, $p-q=p+(-q)$ . Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	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.NS.A.1.d	7 M2 Lesson 4: KAKOOMA®
Apply properties of operations as strategies to add and subtract rational numbers.	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
<b>7.NS.A.2</b> Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide integers and other rational numbers.	This standard is fully addressed by the lessons aligned to its subsections.

# Aligned Components of Eureka Math<sup>2</sup>

7.NS.A.2.a	7 M2 Topic C: Multiplying Rational Numbers		
Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $\left(-\frac{1}{2}\right)(-1)=\frac{1}{2}$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.			
7.NS.A.2.b	7 M2 Lesson 18: Understanding Negative Divisors		
Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with nonzero divisor) is a rational number. If $p$ and $q$ are integers, then $-\left(\frac{p}{q}\right) = \frac{-p}{q} = \frac{p}{-q}$ . Interpret quotients of rational numbers by describing real-world contexts. Interpret quotients of rational numbers by describing real-world contexts.	7 M2 Lesson 21: Comparing and Ordering Rational Numbers		
7.NS.A.2.c	7 M2 Topic C: Multiplying Rational Numbers		
Apply properties of operations as strategies to multiply and divide rational numbers.	7 M2 Lesson 17: Understanding Negative Dividends		
	7 M2 Lesson 18: Understanding Negative Divisors		
	7 M2 Lesson 22: Multiplication and Division Expressions		

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7 M2 Lesson 24: Order of Operations with Rational Numbers

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7.NS.A.2.d	7 M2 Lesson 19: Rational Numbers as Decimals, Part 1		
Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates or eventually repeats.	7 M2 Lesson 20: Rational Numbers as Decimals, Part 2 7 M2 Lesson 21: Comparing and Ordering Rational Numbers		
7.NS.A.3	7 M2 Lesson 23: Properties of Operations with Rational Numbers		
Solve real-world and mathematical problems involving the four operations with integers and other rational numbers.	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		

# **Expressions and Equations**

7.EE.A Use properties of operations to generate equivalent expressions.

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7.EE.A.1	7 M3 Topic A: Equivalent Expressions	
Apply properties of operations to add, subtract, factor, and expand linear expressions with rational coefficients.		
7.EE.A.2	7 M3 Lesson 2: The Distributive Property and the Tabular Model	
Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.	7 M3 Lesson 4: Adding and Subtracting Expressions	
	7 M3 Lesson 5: Factoring Expressions	
	7 M3 Lesson 6: Comparing Expressions	
	7 M3 Lesson 9: Solving Equations to Determine Unknown Angle Measures	
	7 M5 Lesson 10: Percent Increase	

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7.EE.A.2 continued	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	

# **Expressions and Equations**

7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

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#### 7.EE.B.3

Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (integers, fractions, and decimals). Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

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 9: Solving Equations to Determine Unknown Angle Measures

7 M3 Lesson 10: Problem Solving with Unknown Angle Measures

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 M5 Lesson 24: Counting Problems

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Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. 7 M3 Lesson 11: Dominoes and Dominoes

7 M3 Lesson 12: Solving Equations 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 18: Understanding Inequalities and their Solutions

7 M3 Lesson 19: Using Equations to Solve Inequalities

7 M3 Lesson 21: Solving Two-Step Inequalities

7 M3 Lesson 22: Solving Problems Involving Inequalities

7 M3 Lesson 23: Inequalities vs. Equations

#### 7.EE.B.4.a

Solve word problems leading to equations of the form px + q = r and p(x + q) = r, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.

7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures

7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures

7 M3 Lesson 12: Solving Equations 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

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#### 7.EE.B.4.b

Solve word problems leading to inequalities of the form px + q > r or px + q < r, where p, q, and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.

7 M3 Topic D: Inequalities

# Geometry

7.G.A Draw, construct, and describe geometrical figures and describe the relationships between them.

## Idaho Mathematics Content Standards

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#### 7.G.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

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7.G.A.2	7 M4 Topic A: Constructing Geometric Figures
Draw (freehand, with ruler and protractor, and with technology) two-dimensional geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine unique triangles, more than one triangle, or no triangle.	7 M4 Topic B: Constructing Triangles 7 M4 Lesson 9: Constructing a Circle
7.G.A.3	7 M4 Lesson 22: Understanding Planes and Cross Sections
Describe the shape of the two-dimensional face of the figure that results from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	7 M4 Lesson 23: Cross Section Scavenger Hunt

# **Geometry**

7.G.B Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

# Idaho Mathematics Content Standards

# Aligned Components of Eureka Math<sup>2</sup>

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7.G.B.4	This standard is fully addressed by the lessons aligned to its subsections.
Understand the attributes and measurements of circles.	

# Aligned Components of Eureka Math<sup>2</sup>

7.G.B.4.a  Know that a circle is a two-dimensional shape created by connecting all of the points equidistant from a fixed point called the center of the 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
<b>7.G.B.4.b</b> Develop an understanding of circle attributes including radius, diameter, circumference, and area and investigate the relationships between each.	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
<b>7.G.B.4.c</b> Informally derive and know the formulas for the area and circumference of a circle and use them to solve problems.	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.G.B.5  Use facts about supplementary, complementary, vertical, and adjacent angles to write equations and use them to solve for an unknown angle in a figure.	7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures 7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures 7 M3 Lesson 10: Problem Solving with Unknown Angle Measures

# Aligned Components of Eureka Math<sup>2</sup>

#### 7.G.B.6

Generalize strategies for finding area, volume, and surface areas of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms. Solve real-world and mathematical problems in each of these areas.

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 Areas 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

# **Statistics and Probability**

7.SP.A Use random sampling to draw inferences about a population.

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# Aligned Components of Eureka Math<sup>2</sup>

#### 7.SP.A.1

Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.

7 M6 Lesson 11: Populations and Samples

7 M6 Lesson 12: Selecting a Sample

7 M6 Lesson 13: Variability Between Samples

7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean

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#### 7.SP.A.2

Use data from a random sample about an unknown characteristic of a population. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions, i.e., generate a sampling distribution. 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

# **Statistics and Probability**

7.SP.B Draw informal comparative inferences about two populations.

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### 7.SP.B.3

Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.

7 M6 Topic D: Comparing Populations

#### 7.SP.B.4

Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.

7 M6 Topic D: Comparing Populations

# **Statistics and Probability**

7.SP.C Investigate chance processes and develop, use, and evaluate probability models.

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7.SP.C.5	7 M6 Lesson 1: What is Probability?
Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. A probability near 0 indicates an unlikely event, a probability around $\frac{1}{2}$ indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	
7.SP.C.6	7 M6 Lesson 2: Empirical Probability
Approximate the (theoretical) probability of a chance event by collecting data and observing its long-run relative frequency (experimental probability). Predict the approximate relative frequency given the (theoretical) probability.	7 M6 Lesson 3: Outcomes of Chance Experiments 7 M6 Lesson 6: Outcomes That Are Not Equally Likely
	7 M6 Lesson 8: Picking Blue
7.SP.C.7	This standard is fully addressed by the lessons aligned to its subsections.
Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.	

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7.SP.C.7.a	7 M6 Lesson 4: Theoretical Probability
Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.	7 M6 Lesson 7: The Law of Large Numbers
7.SP.C.7.b	7 M6 Lesson 7: The Law of Large Numbers
Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	7 M6 Lesson 8: Picking Blue
7.SP.C.8	This standard is fully addressed by the lessons aligned to its subsections.
Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.	
7.SP.C.8.a	7 M6 Lesson 5: Multistage Experiments
Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	

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7.SP.C.8.b	7 M6 Lesson 5: Multistage Experiments
Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event.	
7.SP.C.8.c	7 M6 Lesson 9: Probability Simulations
Design and use a simulation to generate frequencies for compound events.	7 M6 Lesson 10: Simulations with Random Number Tables