EUREKA MATH²...

Grade 7 | Massachusetts Curriculum Framework for Mathematics Correlation to *Eureka Math*^{2TM}

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*^{2TM}, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math*² carefully sequences mathematical content to maximize vertical alignment-a principle tested and proven to be essential in students' mastery of math-from kindergarten through high school.

While this innovative new curriculum includes all the trademark *Eureka Math* and moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

*Eureka Math*² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering highquality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

Accessibility

*Eureka Math*² incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the *Teach* book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the *Eureka Math*² teacher-writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

Digital Engagement

The digital elements of *Eureka Math*² add to students' engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

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

Ratios and Proportional Relationships

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

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
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,	7 M1 Lesson 2: Exploring Tables of Proportional Relationships
areas, and other quantities measured in like or different units.	7 M1 Lesson 3: Identifying Proportional Relationships in Tables
7.RP.A.2	This standard is fully addressed by the lessons aligned to its subsections.
Recognize and represent proportional relationships between quantities.	
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 (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions 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

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7.RP.A.2.b continued	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.RP.A.2.c	7 M1 Lesson 2: Exploring Tables of Proportional Relationships
Represent proportional relationships by equations.	 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
7.RP.A.2.d Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where <i>r</i> 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

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7.RP.A.3	7 M1 Lesson 7: Handstand Sprint
Use proportional relationships	7 M1 Lesson 10: Applying Proportional Reasoning
to solve multi-step ratio, rate, and percent problems.	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
	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

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The Number System

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

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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	7 M2 Lesson 2: Adding Integers
	7 M2 Lesson 3: Adding Integers Efficiently
positive or negative direction depending on whether <i>q</i> is positive or negative.	7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient
Show that a number and its opposite	7 M2 Lesson 6: Adding Rational Numbers
have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	7 M2 Lesson 8: Subtracting Integers, Part 1

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7.NS.A.1.c	7 M2 Lesson 7: What Subtraction Means
Understand subtraction of rational	7 M2 Lesson 8: Subtracting Integers, Part 1
numbers as adding the additive inverse, p-q = p + (-q). Show that the distance	7 M2 Lesson 9: Subtracting Integers, Part 2
between two rational numbers on the	7 M2 Lesson 10: Subtracting Rational Numbers, Part 1
number line is the absolute value of their difference, and apply this principle in real-world contexts.	7 M2 Lesson 11: Subtracting Rational Numbers, Part 2
7.NS.A.1.d	7 M2 Lesson 4: KAKOOMA®
Apply properties of operations	7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient
as strategies to add and subtract rational numbers.	7 M2 Lesson 6: Adding Rational Numbers
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.NS.A.2	This standard is fully addressed by the lessons aligned to its subsections.
Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide integers and other rational numbers.	

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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 (-1)(-1) = 1 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 non-zero 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.	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 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 in 0s 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 25: Writing and Evaluating Expressions with Rational Numbers, Part 1
Solve real-world and mathematical problems involving the four operations with integers and other rational numbers.	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
7.EE.A.2 Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how	 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

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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	7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1

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Solve multi-step real-life and	7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2
mathematical problems posed with	7 M3 Lesson 9: Solving Equations to Determine Unknown Angle Measures
positive and negative rational numbers in any form (whole numbers, fractions,	7 M3 Lesson 10: Problem Solving with Unknown Angle Measures
and decimals), using tools strategically.	7 M3 Lesson 11: Dominoes and Dominoes
Apply properties of operations	7 M3 Lesson 16: Using Equations to Solve Rate Problems
to calculate with numbers in any form; convert between forms as appropriate;	7 M3 Lesson 17: Using Equations to Solve Problems
and assess the reasonableness of answers	
using mental computation and	
estimation strategies.	

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7.EE.B.4	7 M3 Lesson 11: Dominoes and Dominoes
Use variables to represent quantities	7 M3 Lesson 12: Solving Equations Algebraically and Arithmetically
in a real-world or mathematical	7 M3 Lesson 13: Solving Equations—Puzzles
problem, and construct simple equations and inequalities to solve problems	7 M3 Lesson 16: Using Equations to Solve Rate Problems
by reasoning about the quantities.	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	7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures
Solve word problems leading to equations	7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures
of the form $px + q = r$ and $p(x \div q) = r$, 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	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
in each approach.	7 M3 Lesson 16: Using Equations to Solve Rate Problems

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7.EE.B.4.b	7 M3 Topic D: Inequalities
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.EE.B.4.c Extend analysis of patterns to include analyzing, extending, and determining an expression for simple arithmetic and geometric sequences (e.g., compounding, increasing area), using tables, graphs, words, and expressions.	Supplemental material is necessary to address this standard.

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Geometry

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

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7.G.A.1	7 M1 Lesson 15: Scale Drawings
Solve problems involving scale drawings of geometric figures, such as computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	 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

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7.G.A.1 continued	7 M5 Lesson 1: Proportionality and Scale Factor 7 M5 Lesson 14: Scale Factor–Percent Increase and Decrease
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 a unique triangle, more than one triangle, or no triangle.	7 M4 Topic B: Constructing Triangles 7 M4 Lesson 9: Constructing a Circle
7.G.A.3 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 22: Understanding Planes and Cross Sections 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.

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7.G.B.4	This standard is fully addressed by the lessons aligned to its subsections.
Circles and measurement:	

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7.G.B.4.a	7 M4 Topic A: Constructing Geometric Figures
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 Topic B: Constructing Triangles
	7 M4 Topic C: Circumference and Area of Circles
7.G.B.4.b	7 M4 Lesson 9: Constructing a Circle
Understand and describe the relationships among the radius, diameter, and circumference of a circle.	7 M4 Lesson 10: The Outside of a Circle
7.G.B.4.c	7 M4 Topic A: Constructing Geometric Figures
Understand and describe the relationship	7 M4 Topic B: Constructing Triangles
among the radius, diameter, and area of a circle.	7 M4 Lesson 9: Constructing a Circle
7.G.B.4.d	7 M4 Lesson 10: The Outside of a Circle
Know the formulas for the area and	7 M4 Lesson 11: The Inside of a Circle
circumference of a circle and use them to solve problems.	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

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7.G.B.4.e	7 M4 Lesson 10: The Outside of a Circle
Give an informal derivation of the	7 M4 Lesson 11: The Inside of a Circle
relationship between the circumference and area 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	7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures
Use facts about supplementary,	7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures
complementary, vertical, and adjacent angles in a multi-step problem to write	7 M3 Lesson 10: Problem Solving with Unknown Angle Measures
simple equations and use them to solve	
for an unknown angle in a figure.	
7.G.B.6	7 M4 Lesson 14: Composite Figures with Circular Regions
Solve real-world and mathematical	7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition
problems involving area, volume, and surface area of two- and	7 M4 Lesson 17: Surface Area of Right Rectangular and Right Triangular Prisms
three-dimensional objects composed	7 M4 Lesson 18: Surface Area of Right Prisms
of triangles, quadrilaterals, polygons,	7 M4 Lesson 20: Surface Areas of Right Pyramids
cubes, and right prisms.	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

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Statistics and Probability

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

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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
7.SP.A.2 Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.	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

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Statistics and Probability

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

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7.SP.B.3	7 M6 Topic D: Comparing Populations
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.SP.B.4	7 M6 Topic D: Comparing Populations
Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two 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 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. 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 M6 Lesson 1: What Is Probability?
7.SP.C.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.	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 8: Picking Blue
7.SP.C.7 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.	7 M6 Lesson 7: The Law of Large Numbers

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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

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