

				7.DSP.8 I can find probabilities of compound events using tables, tree diagrams, and simulations.								
				7.DSP.8a I can list the sample space of a compound event using a tree diagram.								
				7.DSP.8b I can design and use a simulation to generate frequencies for compound events.								
MO Learning Standards	MO Learning Standards		Missouri Learning Standards	MO Learning Standards	MO Learning Standards		MO Learning Standards	MO Learning Standards		MO Learning Standards		
	Compute unit rates, including those that involve complex fractions, with like or different units.	Solve problems involving scale drawings of real objects and geometric figures, including computing actual lengths and areas from a scale drawing and reproducing the drawing at a different scale	Use the Percent Proportion to solve problems involving commission, tax, gratuity, discounts, and markups/markdowns	Investigate the probability of chance events.	Apply and extend previous understandings of numbers to add and subtract rational numbers.	Apply and extend previous understandings of numbers to multiply and divide rational numbers.	Apply properties (such as Distributive) of operations to simplify and to factor linear algebraic expressions with rational coefficients.	Solve multi-step problems posed with rational numbers.	Use angle properties to write and solve equations for an unknown angle.	Use a variety of tools to construct geometric shapes.	Understand that statistics can be used to gain information about a population by examining a sample of the population.	Analyze different data distributions using statistical measures.
	Recognize and represent proportional relationships between quantities.		Solve problems involving interest	a. Determine probabilities of simple events.	a. Add and subtract rational numbers.	a. Multiply and divide rational numbers.	Understand how to use equivalent expressions to clarify quantities in a problem.	a. Convert between equivalent forms of the same number	Understand the relationship between area, surface area and volume.	a. Determine if provided constraints will create a unique triangle through construction.	a. Understand that a sample is a subset of a population.	Compare the numerical measures of center, measures of frequency and measures of variability from two random samples to draw inferences about the population.
	a. Determine when two quantities are in a proportional relationship			b. Understand that the probability of a chance event is a number	b. Represent addition and subtraction on a horizontal or vertical	b. Determine that a number and its reciprocal have a		b. Assess the reasonableness of answers using mental	a. Find the area of triangles, quadrilaterals and	b. Construct special quadrilaterals given specific parameters	b. Understand that generalizations from a sample are valid only if	
	b. Identify and/or compute the constant of proportionality (unit rate).			Investigate the relationship between theoretical and experimental probabilities for simple events	c. Describe situations and show that a number and its opposite have a sum of 0 (additive inverses).	c. Understand that every quotient of integers (with non-zero divisor) is a rational number.		Write and/or solve linear equations and inequalities in one variable.	b. Find the volume and surface area of prisms, pyramids and cylinders.	Describe two-dimensional cross sections of pyramids, prisms, cones and cylinders.	c. Understand that random sampling is used to produce representative samples and support valid inferences	
	c. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation			a. Predict outcomes using theoretical probability.	d. Understand subtraction of rational numbers as adding the additive inverse.	d. Convert a rational number to a decimal.		a. Write and/or solve equations of the form $x+p = q$ and $px = q$ in which p and q are rational numbers.	a. Analyze the relationships among the circumference, the radius, the diameter, the area and Pi in a circle		Use data from multiple samples to draw inferences about a population and investigate variability in estimates of the characteristic of interest.	
	d. Recognize that the graph of any proportional relationship will pass through the origin.			b. Perform experiments that model theoretical probability	e. Determine the distance between two rational numbers on the number line is the absolute value of their difference.	e. Understand that all rational numbers can be written as fractions or decimal numbers that terminate or repeat.		b. Write and/or solve two-step equations of the form $px + q = r$ and $p(x + q) = r$, where p, q and r are rational numbers, and interpret the meaning of the solution in the context of the problem.	b. Know and apply the formulas for circumference and area of circles to solve problems			
	Solve problems involving ratios, rates, percentages and proportional relationships.			c. Compare theoretical and experimental probabilities.	f. Interpret sums and differences of rational numbers.	f. Interpret products and quotients of rational numbers by describing real-world contexts.		c. Write, solve and/or graph inequalities of the form $px + q > r$ or $px + q < r$, where p, q and r are rational numbers.				
				Explain possible discrepancies between a developed probability model and observed frequencies		Solve problems involving the four arithmetic operations with rational numbers.						

				a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events								
				b. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process								
				Find probabilities of compound events using organized lists, tables, tree diagrams and simulations								
				a. Represent the sample space of a compound event.								
				b. Design and use a simulation to generate frequencies for compound events.								
Engage Lessons:	Module 1: 1-5,7-9,11,13	Module 1: 16/17 (1st 2 of 16 & all of 17), 18 (1st 3)		L1-4	Module 2A 1-3,6	Module 2B, Lessons 11, 13-15	L2, 3, 4, 6, 7,					
Assessments:	Mid-Test: goo.gl/C3MqtH	Post-Test: https://goo.gl/k177D2		Mid-Test: https://goo.gl/vFUEsx	Mid-Test: https://goo.gl/n1ZJFH	Post-Test: https://goo.gl/kuj5Tu						
Activities:	Activities: Unit Rates w/ Groceries	School Photo Scale Factor		Playing cards, dice, random number generator, spinners, coins		Venn Diagram Comparing Rule Differences	Vocabulary Memory Sam's Diner					
Skipped Lessons:	<i>Skipped Lessons: Module 1: 6,10,12,14,15</i>	<i>Skip 19 on</i>			<i>Skip 4-5, 7-10</i>	<i>Skip 12</i>	<i>Skip 1, 5,</i>					