



Grade Level: 7

Subject: Math

Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Topic #: 1 Rational Number Operations		Duration: 28 days		
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.C.1 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 on a number line that a number and its opposite have a sum of 0 (are additive inverses). Find and interpret sums of rational numbers in real-world contexts.</p>	1-1: Relate Integers and Their Opposites	SWBAT understand how integers and their opposites are related	<ul style="list-style-type: none"> • Absolute Value • Opposites • Integers • Negative • Positive 	<ul style="list-style-type: none"> • Number Lines • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Number Line • Distance from Zero • Absolute Zero Card Game • Story Problems • Board Problems • Review
<p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	1-2: Understand Rational Numbers	SWBAT identify rational numbers and write them in decimal form.	<ul style="list-style-type: none"> • repeating decimal • terminating decimal • Bar notation 	<ul style="list-style-type: none"> • Teach a Partner • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review



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				<p>Small Group:</p> <ul style="list-style-type: none"> • Board Work • No Calculator • Fraction to Decimal • Decimal to Fraction • Story Problems • Board Problems • Review
<p>7.C.1 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 on a number line that a number and its opposite have a sum of 0 (are additive inverses). Find and interpret sums of rational numbers in real-world contexts.</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	<p>1-3: Add Integers</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Add positive and negative integers. • Model integer addition in real-life applications. 	<ul style="list-style-type: none"> • additive inverse 	<ul style="list-style-type: none"> • Board Problems • Computer Fluency • Number Line • Red/Yellow Tiles • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Hands-on Activities • Story Problems • Board Problems • Review



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<p>7.C.2 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.</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	<p>1-4: Subtract Integers</p>	<p>SWBAT understand subtraction of integers as adding the additive inverse, $p - q = p + (-q)$.</p>	<ul style="list-style-type: none"> • Adding the Opposite 	<ul style="list-style-type: none"> • Marcy Cook Up and Down Tiles • Puzzle Boards • Yellow/Red Tiles • Music Video • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Number Cards • Hands-On manipulating problems • Story Problems • Board Problems • Review
<p>7.C.1 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 on a number line that a number and its opposite have a sum of 0 (are additive inverses). Find and interpret sums of rational numbers in real-world contexts.</p>	<p>1-5: Add and Subtract Rational Numbers</p>	<p>SWBAT Use properties of operations to add and subtract rational numbers.</p>		<ul style="list-style-type: none"> • Up and Down Tiles • Grudge Review • 99Math • Textbook • Worksheet • SuccessMaker



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<p>7.C.3 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 $(\frac{1}{2})(\frac{1}{2}) = \frac{1}{4}$ and the rules for multiplying signed numbers</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	<p>1-6: Multiply Integers</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • multiply positive and negative integers. • apply integer multiplication to real-life applications. 		<ul style="list-style-type: none"> • PBS Video • Triangle • Board Problems • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Stacks



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<p>7.C.3 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 $(21)(21) = 1$ and the rules for multiplying signed numbers</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	1-7: Multiply Rational Numbers	SWBAT find the product of rational numbers		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review • Story Problems • Board Problems • Review
<p>7.C.4 Understand that integers can be divided, provided that the divisor is not zero. Understand that if p and q are integers, then $2(pq) = (-p)q = p(-q)$.</p>	1-8: Divide Integers	<p>SWBAT</p> <ul style="list-style-type: none"> • Understand how to divide integers by applying the rules of multiplying integers. • Determine equivalencies among integer quotients. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review



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<p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>				<ul style="list-style-type: none"> • Task Cards • War – Card game • Yahtzee • Project <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review • Story Problems • Board Problems • Review
<p>7.C.4 Understand that integers can be divided, provided that the divisor is not zero. Understand that if p and q are integers, then $2(pq) = (-p)q = p(-q)$.</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	<p>1-9: Divide Rational Numbers</p>	<p>SWBAT understand how the signs of integers in a multiplication sentence relate to the signs in a related division statement.</p>	<ul style="list-style-type: none"> • complex fraction • multiplicative inverse 	<ul style="list-style-type: none"> • 99Math • Music Video • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



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<p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>	<p>1-10: Solve Problems with Rational Numbers</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Decide which operations to use to solve problems. Use precision when solving problems with rational numbers. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Posters CueThink Graphic Organizers <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.C.1 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 on a number line that a number and its opposite have a sum of 0 (are additive inverses). Find and interpret sums of rational numbers in real-world contexts.</p> <p>7.C.2 Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational</p>	<p>3-Act Mathematical Modeling: Win Some, Lose Some (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Use mathematical modeling to represent a problem situation and to propose a solution. Test and verify the appropriateness of their math models 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review



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<p>numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.</p> <p>7.C.3 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 $(21)(21) = 1$ and the rules for multiplying signed numbers</p> <p>7.C.4 Understand that integers can be divided, provided that the divisor is not zero. Understand that if p and q are integers, then $2(pq) = (-p)q = p(-q)$.</p> <p>7.C.7 Compute fluently with rational numbers using an algorithmic approach.</p> <p>7.C.8 Solve real-world problems with rational numbers by using one or two operations.</p>				
<p>7.NS.1 Find the prime factorization of whole numbers and write the results using exponents.</p>	<p>IN-1: Prime Factorization</p>	<p>SWBAT</p> <ul style="list-style-type: none"> find the prime factorization of a whole number. use prime factorization to find the greatest common 	<ul style="list-style-type: none"> Prime Numbers Factors Exponents 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket,



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		factor (GCF) and the least common multiple (LCM) of two whole numbers.		<p>or other online review</p> <ul style="list-style-type: none"> • Tree Diagram • Graphic Organizers • Number Charts • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
7.NS.2 Understand the inverse relationship between squaring and finding the square root of a perfect square whole number. Find square roots of perfect square whole numbers.	IN-4: Evaluate Square Roots	SWBAT find square roots of rational numbers.	<ul style="list-style-type: none"> - Square Root - Perfect Square 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Cheez-Its • Claculator <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
7.NS.3 Know there are rational and irrational numbers. Identify, compare, and order rational and irrational	IN-2: Understand	SWBAT identify an irrational number.	<ul style="list-style-type: none"> - Irrational Numbers 	<ul style="list-style-type: none"> • Textbook • Worksheet



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<p>numbers (e.g. !2, !3, !5, π) and plot them on a number line.</p>	<p>Irrational Numbers</p>		<ul style="list-style-type: none"> - Rational Numbers - Imperfect Square - $\pi - 3.14$ 	<ul style="list-style-type: none"> • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Real-Number Venn Diagram • Number line • All Things Algebra Notes <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.NS.3 Know there are rational and irrational numbers. Identify, compare, and order rational and irrational numbers (e.g. !2, !3, !5, π) and plot them on a number line.</p>	<p>IN-3: Compare and Order Real Numbers</p>	<p>SWBAT compare and order rational and irrational numbers.</p>	<ul style="list-style-type: none"> - Natural Numbers - Whole Numbers - Integers - Rational - Irrational 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Number lines • Number Cards • Graphic Organizers <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems



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				<ul style="list-style-type: none"> Review
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Topic #: 2		Analyze and Use Proportional Relationships	Duration: 16-20 days	
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.C.5 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.</p>	2-1: Connect Ratios, Rates, and Unit Rates	<p>SWBAT</p> <ul style="list-style-type: none"> Use ratios and rates to describe the relationship between two quantities. Find equivalent ratios and use unit rates to solve multi-step problems. 	<ul style="list-style-type: none"> Rates Unit Rates Ratios 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Heart Rate Project Desmos <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.C.5 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.</p>	2-2: Determine Unit Rates with Ratios of Fractions	<p>SWBAT</p> <ul style="list-style-type: none"> Find unit rates with ratios of fractions. Use unit rates to solve multi-step problems. 	<ul style="list-style-type: none"> Complex Fractions 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!,



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				Blooket, or other online review <ul style="list-style-type: none"> Taco Tuesday digital Small Group: <ul style="list-style-type: none"> Story Problems Board Problems Review
7.AF.6 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).	2-3: Understand Proportional Relationships: Equivalent Ratios	SWBAT determine whether quantities are proportional by testing for equivalent ratios.	- proportional relationship, -proportion Equivalent Ratios Origin Cross Product -	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Coordinate Planes Graphic Organizers Small Group: <ul style="list-style-type: none"> Story Problems Board Problems Review
7.AF.7 Identify the unit rate or constant of proportionality in tables, graphs, equations, and verbal descriptions of proportional relationships.	2-4: Describe Proportional Relationships: Constant of	SWBAT: <ul style="list-style-type: none"> Use the constant of proportionality to write 	• constant of proportionality (K)	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker



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	Proportionality	<p>equations that represent proportional relationships.</p> <ul style="list-style-type: none"> Use equations to solve problems involving proportional relationships. 		<ul style="list-style-type: none"> Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.C.5 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.</p> <p>7.AF.6 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).</p> <p>7.AF.7 Identify the unit rate or constant of proportionality in tables, graphs, equations, and verbal descriptions of proportional relationships.</p>	3- Act Mathematical Modeling: Mixin' it Up (Supplemental)	<p>SWBAT</p> <ul style="list-style-type: none"> Use mathematical modeling to represent a problem situation and to propose a solution. Test and verify the appropriateness of math models. Explain why the results from mathematical models may not align exactly to the problem situation. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.AF.6 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).</p>	2-5: Graph Proportional Relationships	<p>SWBAT</p> <ul style="list-style-type: none"> Use a graph to recognize proportionality. Identify a constant of proportionality from a graph. 	<p>Coordinate Plane</p> <p>Quadrants</p> <p>Ordered Pairs</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!,



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<p>7.AF.7 Identify the unit rate or constant of proportionality in tables, graphs, equations, and verbal descriptions of proportional relationships.</p> <p>7.AF.8 Explain what the coordinates of a point on the graph of a proportional relationship mean in terms of the situation, with special attention to the points(0, 0) and (1, r), where r is the unit rate.</p> <p>7.AF.9 Represent real-world and other mathematical situations that involve proportional relationships. Write equations and draw graphs to represent these proportional relationships. Recognize that these situations are described by a linear function in the form $y = mx$, where the unit rate, m, is the slope of the line.</p>		<ul style="list-style-type: none"> Interpret a point on a graph of a proportional relationship. 		<p>Blooket, or other online review</p> <ul style="list-style-type: none"> Graphic Organizers Coordinate Plane <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.C.5 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.</p> <p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across</p>	<p>2-6: Apply Proportional Reasoning to Solve Problems</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Explain whether a situation represents a proportional relationship. Use representations to find entry points into problems. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review



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<p>measurement systems, and percent increase and decrease).</p> <p>7.AF.6 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).</p> <p>7.AF.7 Identify the unit rate or constant of proportionality in tables, graphs, equations, and verbal descriptions of proportional relationships.</p> <p>7.AF.8 Explain what the coordinates of a point on the graph of a proportional relationship mean in terms of the situation, with special attention to the points (0, 0) and (1, r), where r is the unit rate.</p> <p>7.AF.9 Represent real-world and other mathematical situations that involve proportional relationships. Write equations and draw graphs to represent these proportional relationships. Recognize that these situations are described by a linear function in the form $y = mx$, where the unit rate, m, is the slope of the line.</p>				<p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.4 Define slope as vertical change for each unit of horizontal change and</p>	<p>IN-5</p>		<p>- Slope (m)</p>	<ul style="list-style-type: none"> • Textbook



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<p>recognize that a constant rate of change or constant slope describes a linear function. Identify and describe situations with constant or varying rates of change.</p>			<ul style="list-style-type: none"> - Rise (change in y value) - Run (change in x value) - 	<ul style="list-style-type: none"> • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Graphic Organizers • Geo-Boards <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.5 Graph a line given its slope and a point on the line. Find the slope of a line given its graph.</p> <p>7.AF.9 Represent real-world and other mathematical situations that involve proportional relationships. Write equations and draw graphs to represent these proportional relationships. Recognize that these situations are described by a linear function in the form $y = mx$, where the unit rate, m, is the slope of the line.</p>	<p>IN-6</p>		<ul style="list-style-type: none"> - Linear equation - Direct Variation - 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Coordinate Planes <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



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Topic #: 3 Analyze and Solve Percent Problems		Duration: 24 days		
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	3-1: Analyze Percents of Numbers	<p>SWBAT</p> <ul style="list-style-type: none"> Understand that equivalent rates can be used to find percents. Analyze percents of numbers in a real-world context. 	<p>-Percent -Part versus Whole</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Graphic Organizers <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	3-2 Connect Percent and Proportion	<p>SWBAT</p> <ul style="list-style-type: none"> Construct a percent proportion. Use a percent proportion to find an unknown part, whole, or percent. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p>



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				<ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	<p>3-3: Represent and Use the Percent Equation</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Understand the relationship between proportional reasoning and percent. • Interpret the results of a percent equation in a real-life scenario. 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	<p>3-4: Solve Percent Change and Percent Error Problems</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Solve real-world problems involving percent change and percent error. • Understand the percent equation and the different ways it can be used. 	<ul style="list-style-type: none"> • percent change • percent error 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



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<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	<p>3-Act Mathematical Modeling: The Smart Shopping (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use mathematical modeling to represent a problem situation and to propose a solution. • Test and verify the appropriateness of their math models. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest, tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	<p>3-5: Solve Markup and Markdown Problems</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Understand and calculate markups and markdowns. • Relate percent change to percent markup and percent markdown. 	<ul style="list-style-type: none"> • markup • markdown • percent markup • percent markdown • Tax • Tip • Gratuities • 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Project – Daisy’s Donuts <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.C.6 Use proportional relationships to solve ratio and percent problems with multiple operations (e.g. simple interest,</p>	<p>3-6: Solve Simple</p>	<p>SWBAT</p>	<ul style="list-style-type: none"> • interest rate • principal 	<ul style="list-style-type: none"> • Textbook • Worksheet



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>tax, markups, markdowns, gratuities, conversions within and across measurement systems, and percent increase and decrease).</p>	<p>Interest Problems</p>	<ul style="list-style-type: none"> Identify the parts of interest problems and how the values are related. Understand what simple interest is and how it is calculated. 	<ul style="list-style-type: none"> simple interest 	<ul style="list-style-type: none"> SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
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Topic #: 4 Write and Evaluate Algebraic Expressions		Duration: 16 days		
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.AF.2 Solve equations of the form $px + q = r$ and $p(x + q) = r$ fluently, where p, q, and r are specific rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p>	<p>4-1: Write and Evaluate Algebraic Expressions</p>	<p>SWBAT understand how variables are used to represent unknown values in problems.</p>	<p>-Evaluate -Simplify -Expressions -Variables</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x^2 + 10$, create an equivalent expression $2(x^2 + 5)$). Justify each step in the process.</p>	<p>4-2: Generate Equivalent Expressions</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Recognize when two expressions are equivalent. Use properties of operations to write equivalent expressions. 	<p>-Associative Property -Commutative Property -Distributive Property -Identity Property -Simplify</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Graphic Organizer for Properties Property Theatre <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x^2 + 10$, create an equivalent expression $2(x^2 + 5)$). Justify each step in the process.</p>	<p>4-3: Simplify Expressions</p>	<p>SWBAT combine like integer and rational terms.</p>	<p>-Like Terms</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Tiles <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

				<ul style="list-style-type: none"> Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x + 10$, create an equivalent expression $2(x + 5)$). Justify each step in the process.</p>	4-4: Expand Expressions	SWBAT use the Distributive Property to expand expressions.	-Distributive Property	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x + 10$, create an equivalent expression $2(x + 5)$). Justify each step in the process.</p>	4-5: Factors Expressions	<p>SWBAT</p> <ul style="list-style-type: none"> Understand expanding an expression is the reverse of factoring. Identify the GCF of algebraic terms in expressions. 	-Factoring -Factors	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x^2 + 10$, create an equivalent expression $2(x^2 + 5)$). Justify each step in the process.</p>	<p>3-Act Mathematical Modeling: I've Got You Covered (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use mathematical modeling to represent a problem situation and to propose a solution. • Test and verify the appropriateness of their math models. • Explain why the results from their mathematical models may not align exactly to the problem situation. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x^2 + 10$, create an equivalent expression $2(x^2 + 5)$). Justify each step in the process.</p>	<p>4-6: Add Expressions</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use properties of operations to add expressions. • Model addition of expressions in real-life applications. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x + 10$, create an equivalent expression $2(x + 5)$). Justify each step in the process.</p>	<p>4-7: Subtract Expressions</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use properties of operations to subtract expressions. • Model subtraction of expressions in real-life applications. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x + 10$, create an equivalent expression $2(x + 5)$). Justify each step in the process.</p>	<p>4-8: Analyze Equivalent Expressions</p>	<p>SWBAT write equivalent expressions to show how quantities are related in real-life applications.</p>		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems



Grade Level: 7

Subject: Math

Critical (1/3)
 Moderate (0/2)
 Low (0/1)

- Review

Topic #: 5 Solve Problems Using Equations and Inequalities Duration: 14 days				
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.AF.2 Solve equations of the form $px + q = r$ and $p(x + q) = r$ fluently, where p, q, and r are specific rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p>	5-1: Write Two-Step Equations	<p>SWBAT</p> <ul style="list-style-type: none"> • Analyze word problems to write two-step equations. • Understand the relationship between the terms of the equation and the values they represent. 	<ul style="list-style-type: none"> • Equations • 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Operation Word Graphic Organizer <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.2 Solve equations of the form $px + q = r$ and $p(x + q) = r$ fluently, where p, q, and r are specific rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p>	5-2: Solve Two-Step Equations	<p>SWBAT</p> <ul style="list-style-type: none"> • Use models to solve two-step equations. • Compare algebraic and arithmetic solutions. 	<ul style="list-style-type: none"> • isolate the variable • equation 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or



Grade Level: 7

Subject: Math

Critical (1/3)
 Moderate (0/2)
 Low (0/1)

				<p>other online review</p> <ul style="list-style-type: none"> • Mobile • Balance and Number Tiles • Desmos • Partner Passing <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.1 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions, including situations that involve factoring out a common number (e.g., given $2x + 10$, create an equivalent expression $2(x + 5)$). Justify each step in the process.</p> <p>7.AF.2 Solve equations of the form $px + q = r$ and $p(x + q) = r$ fluently, where p, q, and r are specific rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p>	<p>5-3: Solve Equations Using the Distributive Property</p>	<p>SWBAT solve equations using the Distributive Property</p>		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Partner Check <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.AF.3 Solve inequalities of the form $px + q (> \text{ or } \geq) r$ or $px + q (< \text{ or } \leq) r$, where p, q, and r are specific rational numbers. Represent real-world problems using inequalities of these forms and solve such problems. Graph the solution set of the inequality and interpret it in the context of the problem.</p>	<p>5-4: Solve Inequalities Using Addition or Subtractions</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Graph the solution of inequalities on a number line. Solve inequalities using the Addition and Subtraction Properties of Inequality. 	<p>-Inequalities -Greater than -Less than</p>	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Number Lines <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.AF.3 Solve inequalities of the form $px + q (> \text{ or } \geq) r$ or $px + q (< \text{ or } \leq) r$, where p, q, and r are specific rational numbers. Represent real-world problems using inequalities of these forms and solve such problems. Graph the solution set of the inequality and interpret it in the context of the problem.</p>	<p>5-5: Solve Inequalities Using Multiplication or Division</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Write inequalities and solve them using Multiplication and Division Properties of Inequality. Graph the solutions of an inequality on a number line. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Task Cards <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems

Grade Level: 7

Subject: Math

				<ul style="list-style-type: none"> • Board Problems • Review
<p>7.AF.3 Solve inequalities of the form $px + q (> \text{ or } \geq) r$ or $px + q (< \text{ or } \leq) r$, where p, q, and r are specific rational numbers. Represent real-world problems using inequalities of these forms and solve such problems. Graph the solution set of the inequality and interpret it in the context of the problem.</p>	<p>3-Act Mathematical Modeling: Digital Downloads (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use mathematical modeling to represent a problem situation and to propose a solution. • Test and verify the appropriateness of their mathematical models. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.AF.3 Solve inequalities of the form $px + q (> \text{ or } \geq) r$ or $px + q (< \text{ or } \leq) r$, where p, q, and r are specific rational numbers. Represent real-world problems using inequalities of these forms and solve such problems. Graph the solution set of the inequality and interpret it in the context of the problem.</p>	<p>5-6: Solve Two-Step Inequalities</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Write and solve a two-step inequality to solve a problem. • Solve an inequality by multiplying or dividing by a negative rational number. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

				<ul style="list-style-type: none"> • Board Problems • Review
<p>7.AF.3 Solve inequalities of the form $px + q (> \text{ or } \geq) r$ or $px + q (< \text{ or } \leq) r$, where p, q, and r are specific rational numbers. Represent real-world problems using inequalities of these forms and solve such problems. Graph the solution set of the inequality and interpret it in the context of the problem.</p>	<p>5-7: Solve Multi-Step Inequalities</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Explore the relationship between two-step inequalities and multi-step inequalities. • Apply the Distributive Property to simplify and solve multi-step inequalities. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Around the World Activity <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review

Topic #: 8		Solve Problems Involving Geometry		Duration: 27-32 days	
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials	
<p>7.AF.7 Identify the unit rate or constant of proportionality in tables, graphs, equations, and verbal descriptions of proportional relationships.</p>	<p>8-1: Solve Problems Involving Scale Drawings</p>	<p>SWBAT use a scale drawing as a representation of actual lengths and area.</p>	<ul style="list-style-type: none"> • scale drawing 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, 	



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.GM.3 Solve real-world and other mathematical problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing. Create a scale drawing by using proportional reasoning.</p>				<p>Blooket, or other online review</p> <ul style="list-style-type: none"> • Scale Project • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.GM.1 Explore triangles with given conditions from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.</p>	<p>8-2: Draw Geometric Figures</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Explore the relationship between two-step inequalities and multi-step inequalities. • Apply the Distributive Property to simplify and solve multi-step inequalities. 	<p>-Unique Triangle</p>	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Straws/Sticks <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.GM.1 Explore triangles with given conditions from three measures of angles or sides, noticing when the</p>	<p>8-3: Draw Triangles with Given Conditions</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Construct triangles with given conditions. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>conditions determine a unique triangle, more than one triangle, or no triangle.</p> <p>***Eliminate??***</p>		<ul style="list-style-type: none"> Conclude whether or not a triangle is formed and what type of triangle it is. 		<ul style="list-style-type: none"> Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.GM.4 Solve real-world and other mathematical problems using facts about vertical, adjacent, complementary, and supplementary angles.</p>	<p>8-4: Solve Problems Using Angle Relationships</p>	<p>SWBAT calculate the measures of angles by using angle relationships.</p>	<ul style="list-style-type: none"> adjacent angles complementary angles supplementary angles vertical angles 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.GM.2 Identify and describe similarity relationships of polygons including the angle-angle criterion for similar triangles, and solve problems involving similarity.</p>	<p>IN-7</p>	<p>SWBAT</p> <ul style="list-style-type: none"> identify similar polygons. 	<ul style="list-style-type: none"> polygons 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

		<ul style="list-style-type: none"> • solve problems by applying their understanding of similar polygons. 		<ul style="list-style-type: none"> • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review •
<p>7.GM.5 Understand the formulas for area and circumference of a circle and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between circumference and area of a circle.</p>	<p>8-5: Solve Problems Involving Circumference of a Circle</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Calculate the circumference, radius, or diameter of a circle. • Recognize the relationship between the circumference and the diameter of a circle and π. 	<ul style="list-style-type: none"> • Circumference • Diameter • Radius • Center • PI • 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Manipulatives • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.GM.5 Understand the formulas for area and circumference of a circle and use them to solve real-world and other mathematical problems; give an informal</p>	<p>8-6: Solve Problems Involving Area of a Circle</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Find the area of a circle. • Use the area to find the radius and diameter. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>derivation of the relationship between circumference and area of a circle.</p>		<ul style="list-style-type: none"> Solve problems involving the area of circle. 		<ul style="list-style-type: none"> Quizziz, Gimkit, Kahoot!, Blooket, or other online review Circle Project Task Cards <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.GM.5 Understand the formulas for area and circumference of a circle and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between circumference and area of a circle.</p>	<p>3-Act Mathematical Modeling: Whole Lotta Dough (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Use mathematical modeling to represent a problem situation and to propose a solution. Test and verify the appropriateness of their mathematical models. 		<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>***Eliminate***</p>	<p>8-7: Describe Cross Sections</p>	<p>SWBAT</p>	<ul style="list-style-type: none"> cross section 	<ul style="list-style-type: none"> Textbook Worksheet



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

		<ul style="list-style-type: none"> Describe cross sections of right rectangular prisms and pyramids. Solve problems involving cross sections. 		<ul style="list-style-type: none"> SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.GM.7 Construct nets for right rectangular prisms and cylinders and use the nets to compute the surface area; apply this technique to solve real-world and other mathematical problems.</p>	<p>8-8: Solve Problems Involving Surface Area</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Find the surface area of two-dimensional composite shapes. Find the surface area of three-dimensional composite shapes. 	<ul style="list-style-type: none"> composite figure 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review Manipulatives Project <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.GM.7 Construct nets for right rectangular prisms and cylinders and use</p>	<p>IN-8</p>	<p>SWBAT draw nets of solid figures and use them to calculate the</p>		<ul style="list-style-type: none"> Textbook Worksheet



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>the nets to compute the surface area; apply this technique to solve real-world and other mathematical problems.</p>		<p>surface areas of cylinders and right rectangular prisms.</p>		<ul style="list-style-type: none"> • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.GM.6 Solve real-world and other mathematical problems involving volume of cylinders and three-dimensional objects composed of right rectangular prisms</p>	<p>8-9: Solve Problems Involving Volume</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Calculate the volume of various three-dimensional figures. • Solve problems involving the volume of three-dimensional figures. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.GM.6 Solve real-world and other mathematical problems involving volume of cylinders and three-</p>	<p>IN-9</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • identify and use the correct formula to calculate the volume of a cylinder. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>dimensional objects composed of right rectangular prisms.</p>		<ul style="list-style-type: none"> recognize the relationship between the formulas for the volume of a rectangular prism and the volume of a cylinder. 		<ul style="list-style-type: none"> Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
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Topic #: 6 Use Sampling to Draw Inferences About Populations		Duration: 8 days		
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.DSP.1 Understand that statistics can be used to gain information about a population by examining a sample of the population. Understand that conclusions and generalizations about a population from a sample are valid only if the sample is representative of that population and that random sampling tends to produce representative samples and support valid inferences.</p>	<p>6-1: Populations and Samples</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Distinguish between a population and a sample. Establish whether a sample is representative of a population. Generate random samples. 	<ul style="list-style-type: none"> random sample representative sample 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!, Blooket, or other online review <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

Grade Level: 7

Subject: Math

<p>7.DSP.1 Understand that statistics can be used to gain information about a population by examining a sample of the population. Understand that conclusions and generalizations about a population from a sample are valid only if the sample is representative of that population and that random sampling tends to produce representative samples and support valid inferences.</p> <p>7.DSP.2 Use data from a random sample to draw inferences about a population. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.</p>	<p>6-2: Draw Inferences from Data</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Make qualitative inferences from a sample data set. • Make quantitative inferences from a sample data set. • Make estimates about a population based on a sample data set, and assess whether the inferences are valid. 	<ul style="list-style-type: none"> • valid inference 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Graphs • Data Sets • Tables <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.DSP.3 Find, use, and interpret measures of center (mean and median) and measures of spread (range, interquartile range, and mean absolute deviation) for numerical data from random samples to draw comparative inferences about two populations.</p> <p>7.DSP.4 Make observations about the degree of visual overlap of two numerical data distributions represented in line plots or box plots. Describe how data, particularly</p>	<p>6-3: Make Comparative Inferences About Populations</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use box plots to compare and make inferences about populations. • Use the median and IQR of data sets to informally compare and make inferences about two populations. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Graphic Organizers <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems

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<p>outliers, added to a data set may affect the mean and/or median.</p>				<ul style="list-style-type: none"> • Board Problems • Review
<p>7.DSP.3 Find, use, and interpret measures of center (mean and median) and measures of spread (range, interquartile range, and mean absolute deviation) for numerical data from random samples to draw comparative inferences about two populations.</p> <p>7.DSP.4 Make observations about the degree of visual overlap of two numerical data distributions represented in line plots or box plots. Describe how data, particularly outliers, added to a data set may affect the mean and/or median.</p>	<p>6-4: Make More Comparative Inferences About Populations</p>	<p>SWBAT use the mode, range, mean, and mean absolute deviation (MAD) to compare populations.</p>		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.DSP.1 Understand that statistics can be used to gain information about a population by examining a sample of the population. Understand that conclusions and generalizations about a population from a sample are valid only if the sample is representative of that population and that random sampling tends to produce representative samples and support valid inferences.</p>	<p>3-Act Mathematical Modeling: Raising Money (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use mathematical modeling to represent a problem situation and to propose a solution. • Test and verify the appropriateness of their math models. • Explain why the results from their mathematical models may not align exactly to the problem situation. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Graphs • Tables • Data Charts <p>Small Group:</p>



Critical (1/3)
 Moderate (0/2)
 Low (0/1)

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<p>7.DSP.2 Use data from a random sample to draw inferences about a population. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.</p>				<ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.DSP.3 Find, use, and interpret measures of center (mean and median) and measures of spread (range, interquartile range, and mean absolute deviation) for numerical data from random samples to draw comparative inferences about two populations.</p>				
<p>7.DSP.4 Make observations about the degree of visual overlap of two numerical data distributions represented in line plots or box plots. Describe how data, particularly outliers, added to a data set may affect the mean and/or median.</p>				

Topic #: 7 Probability		Duration: 14 days		
Standard(s)	Envision Lesson	Objective	Vocabulary	Materials
<p>7.DSP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Understand that a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is equally likely to occur or not occur, and a probability near 1 indicates an event that is almost certain to occur.</p>	<p>7-1: Understand Likelihood and Probability</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use probability to describe to describe the likelihood that an event will occur. 	<ul style="list-style-type: none"> • outcomes • probability 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!,



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<p>event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur and a probability of 0 indicates an event impossible to occur. Identify probabilities of events as impossible, unlikely, equally likely, likely, or certain.</p> <p>7.DSP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its relative frequency from a large sample.</p> <p>7.DSP.7 Develop probability models that include the sample space and probabilities of outcomes to represent simple events with equally likely outcomes. Predict the approximate relative frequency of the event based on the model. Compare probabilities from the model to observed frequencies; evaluate the level of agreement and explain possible sources of discrepancy.</p>		<ul style="list-style-type: none"> Relate probability to mathematical fairness. 		<p>Blooket, or other online review</p> <ul style="list-style-type: none"> Continuum Graphic Organizers <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.DSP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Understand that a probability near 0 indicates an unlikely event, a</p>	<p>7-2: Understand Theoretical Probability</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Understand theoretical probability and how it can be used. 	<ul style="list-style-type: none"> event theoretical probability 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker Quizziz, Gimkit, Kahoot!,



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<p>probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur and a probability of 0 indicates an event impossible to occur. Identify probabilities of events as impossible, unlikely, equally likely, likely, or certain.</p> <p>7.DSP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its relative frequency from a large sample.</p> <p>7.DSP.7 Develop probability models that include the sample space and probabilities of outcomes to represent simple events with equally likely outcomes. Predict the approximate relative frequency of the event based on the model. Compare probabilities from the model to observed frequencies; evaluate the level of agreement and explain possible sources of discrepancy.</p>		<ul style="list-style-type: none"> Use theoretical probability to predict an outcome. 		<p>Blooket, or other online review</p> <ul style="list-style-type: none"> <p>Small Group:</p> <ul style="list-style-type: none"> Story Problems Board Problems Review
<p>7.DSP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Understand that a probability near 0</p>	<p>7-3: Understand Experimental Probability</p>	<p>SWBAT</p> <ul style="list-style-type: none"> Compare theoretical and experimental probability. 	<ul style="list-style-type: none"> experimental probability relative frequency 	<ul style="list-style-type: none"> Textbook Worksheet SuccessMaker



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<p>indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur and a probability of 0 indicates an event impossible to occur. Identify probabilities of events as impossible, unlikely, equally likely, likely, or certain.</p> <p>7.DSP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its relative frequency from a large sample.</p> <p>7.DSP.7 Develop probability models that include the sample space and probabilities of outcomes to represent simple events with equally likely outcomes. Predict the approximate relative frequency of the event based on the model. Compare probabilities from the model to observed frequencies; evaluate the level of agreement and explain possible sources of discrepancy.</p>		<ul style="list-style-type: none"> • Use experimental probability to make predictions. • Explain differences between theoretical and experimental probability. 		<ul style="list-style-type: none"> • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Dice • Desmos • Probability Project • Bracketology • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.DSP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.</p>	<p>7-4: Use Probability Models</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Develop a probability model. 	<ul style="list-style-type: none"> • sample space • probability model 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker

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<p>Understand that a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur and a probability of 0 indicates an event impossible to occur. Identify probabilities of events as impossible, unlikely, equally likely, likely, or certain.</p> <p>7.DSP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its relative frequency from a large sample.</p>		<ul style="list-style-type: none"> • Use a probability model to evaluate a situation. • Use a probability model to make an estimate. 		<ul style="list-style-type: none"> • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Yellow Starburst Activity <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>7.DSP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Understand that a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur and a probability of 0 indicates an event impossible to occur. Identify probabilities of events as</p>	<p>3-Act Mathematical Modeling: Photo Finish (Supplemental)</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Use mathematical modeling to represent a problem situation and to propose a solution. • Test and verify the appropriateness of their math models. • Explain why the results from their mathematical models may not align exactly to the problem situation. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review



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<p>impossible, unlikely, equally likely, likely, or certain.</p> <p>7.DSP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its relative frequency from a large sample.</p>				
<p>***Eliminate??***</p>	<p>7-5: Determine Outcomes of Compound Events</p>	<p>SWBAT use a tree diagram, a table, or an organized list to represent the sample space for a compound event.</p>	<ul style="list-style-type: none"> • compound event 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • <p>Small Group:</p> <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
<p>***Eliminate??****</p>	<p>7-6: Find Probabilities of Compound Events</p>	<p>SWBAT</p> <ul style="list-style-type: none"> • Organize information about a compound event on a table, a tree diagram, or an organized list. • Find the probability of a compound event. 		<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review •



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				Small Group: <ul style="list-style-type: none"> • Story Problems • Board Problems • Review
Eliminate?*	7-7: Simulate Compound Events	SWBAT <ul style="list-style-type: none"> • Use different tools to simulate a compound event. • Model a real-world situation involving a compound event and predict its outcome using a simulation. 	<ul style="list-style-type: none"> • simulation 	<ul style="list-style-type: none"> • Textbook • Worksheet • SuccessMaker • Quizziz, Gimkit, Kahoot!, Blooket, or other online review • Small Group: <ul style="list-style-type: none"> • Story Problems • Board Problems • Review