



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

Grade Level: 6 Subject: Math

| Topic #: 1 Use Positive Rational Numbers | | Duration: Quarter 1 August-September | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| 6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach. | 1-1 Frequently Add, Subtract, and Multiply Decimals | SWBAT <ul style="list-style-type: none"> Add and subtract decimals with precision. Multiply decimals. Add, subtract, and multiply decimals to solve real-world problems. | | <ul style="list-style-type: none"> 99math multiplication |
| 6.C.1 Divide multi-digit whole numbers fluently using a standard algorithmic approach. | 1-2 Fluently Divide Whole Numbers and Decimals | SWBAT <ul style="list-style-type: none"> Use place-value structure to divide whole numbers and decimals. Divide whole numbers and decimals to solve real-world problems. | | <ul style="list-style-type: none"> 99math division Edulastic: Decimal Computation |
| 6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach. 6.C.3 Solve real-world problems with positive fractions and decimals by using one or two operations. | 1-3 Multiply Fractions | SWBAT <ul style="list-style-type: none"> Use models to multiply fractions. Multiply the numerators and then the denominators to find the product of two fractions. Multiply mixed numbers. | | <ul style="list-style-type: none"> Groups: p. 28 |
| 6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach. | 3- Act Mathematical Modeling | SWBAT <ul style="list-style-type: none"> Use mathematical modeling to represent a | | <ul style="list-style-type: none"> |



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| | Lesson (Supplement) | <p>problem situation and to propose a solution.</p> <ul style="list-style-type: none"> • 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. | | |
| <p>6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach.</p> <p>6.C.3 Solve real-world problems with positive fractions and decimals by using one or two operations.</p> <p>6.C.4 Compute quotients of positive fractions and solve real-world problems involving division of fractions by fractions. Use a visual fraction model and/or equation to represent these calculations.</p> | 1-4 Understand Division with Fractions | <p>SWBAT</p> <ul style="list-style-type: none"> • Use models to divide with fractions. • Use equations to divide with fractions. | <ul style="list-style-type: none"> • reciprocal | <ul style="list-style-type: none"> • Groups p. 38 |
| <p>6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach.</p> | 1-5 Divide Fractions by Fractions | <p>SWBAT</p> <ul style="list-style-type: none"> • Use models to divide fractions by fractions. • Use an algorithm to divide fractions by fractions. | | <ul style="list-style-type: none"> • Groups p. 44 |



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| <p>6.C.3 Solve real-world problems with positive fractions and decimals by using one or two operations.</p> <p>6.C.4 Compute quotients of positive fractions and solve real-world problems involving division of fractions by fractions. Use a visual fraction model and/or equation to represent these calculations.</p> | | | | |
| <p>6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach.</p> <p>6.C.3 Solve real-world problems with positive fractions and decimals by using one or two operations.</p> <p>6.C.4 Compute quotients of positive fractions and solve real-world problems involving division of fractions by fractions. Use a visual fraction model and/or equation to represent these calculations.</p> | <p>1-6 Divide Mixed Numbers</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Divide with mixed numbers. • Estimate the quotient of mixed numbers. | | <ul style="list-style-type: none"> • Edulastic: Compute Decimals & Fractions |
| <p>6.C.2 Compute with positive fractions and positive decimals fluently using a standard algorithmic approach.</p> | <p>1-7 Solve Problems with Rational Numbers</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Solve multistep problems with fractions and decimals. | | <ul style="list-style-type: none"> • Groups p. 56 • Topic 1 Test: Edulastic |



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| <p>6.C.3 Solve real-world problems with positive fractions and decimals by using one or two operations.</p> <p>6.C.4 Compute quotients of positive fractions and solve real-world problems involving division of fractions by fractions. Use a visual fraction model and/or equation to represent these calculations.</p> | | | | |
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| Topic #: 2 Integers and Rational Numbers | | Duration: Quarter 1 September-October | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.NS.1 Understand that positive and negative numbers are used to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge). Use positive and negative numbers to represent and compare quantities in real-world contexts, explaining the meaning of 0 in each situation.</p> <p>6.NS.2 Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number</p> | <p>2-1 Understand Integers</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Identify opposites of integers. Compare and order integers. Use integers to represent real-world quantities and explain the meaning of 0 in each context. | <ul style="list-style-type: none"> integers opposites | <ul style="list-style-type: none"> 2-1: Math XL: Practice & Problem Solving <p>Small Group: Worksheet: Integer Word Problems</p> |



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| <p>itself (e.g., $-(-3) = 3$), and that 0 is its own opposite.</p> <p>6.NS.3 Compare and order rational numbers and plot them on a number line. Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p> | | | | <ul style="list-style-type: none"> • Card Sort |
| <p>6.NS.3 Compare and order rational numbers and plot them on a number line. Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p> <p>6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator.</p> | <p>2-2 Represent Rational Numbers on the Number Line</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Plot rational numbers on a number line. • Compare and order rational numbers. • Use rational numbers to represent real-world quantities. | <ul style="list-style-type: none"> • rational number | <ul style="list-style-type: none"> • Quizizz 1. Compare & order rational numbers on a number line. 2. Ordering rational numbers. • 2.2; Math XL: Practice & Problem Solving <p>Small Group:</p> |
| <p>6.NS.3 Compare and order rational numbers and plot them on a number line. Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p> <p>6.NS.4 Understand that the absolute value of a number is the distance from zero on a number line. Find the absolute</p> | <p>2-3 Absolute Values of Rational Numbers</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Use absolute value to represent a number's distance from 0. • Interpret absolute value in real-world situations. | <ul style="list-style-type: none"> • absolute value | <ul style="list-style-type: none"> • Blooket Live • Edulastic: Absolute Value and Ordering Integers and Rational Numbers |



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| <p>value of real numbers and know that the distance between two numbers on the number line is the absolute value of their difference. Interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.</p> | | | | <p>Small Group: Page 87</p> |
| <p>6.AF.7 Understand that signs of numbers in ordered pairs indicate the quadrant containing the point. Identify rules or patterns in the signs as they relate to the quadrants Graph points with rational number coordinates on a coordinate plane.</p> <p>6.AF.8 Solve real-world and other mathematical problems by graphing points with rational number coordinates on a coordinate plane. Include the use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> | <p>2-4 Represent Rational Numbers on the Coordinate Plane</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Identify and graph points with rational coordinates on the coordinate plane. Reflect points with rational coordinates across both axes. | <ul style="list-style-type: none"> coordinate plane ordered pair origin quadrant x- and y- axes | <ul style="list-style-type: none"> XL 2.4 Performance Task (Pg. 88) Cuethink: Feeding Mack's Animals <p>Small Group: Page 94</p> |
| <p>6.NS.1 Understand that positive and negative numbers are used to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge). Use positive and negative numbers to represent and compare quantities in real-world contexts, explaining the meaning of 0 in each situation.</p> | <p>3-Act Mathematical Modeling: The Ultimate Throw</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use mathematical modeling to represent a problem situation and to propose a situation. Test and verify the appropriateness of their math models. Explain why the results from their mathematical | | <ul style="list-style-type: none"> <p>Small Group:</p> |



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| <p>6.NS.3 Compare and order rational numbers and plot them on a number line. Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p> | | <p>models may not align exactly with the problem situation.</p> | | |
| <p>6.NS.2 Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself (e.g., $-(-3) = 3$), and that 0 is its own opposite.</p> <p>6.AF.7 Understand that signs of numbers in ordered pairs indicate the quadrant containing the point. Identify rules or patterns in the signs as they relate to the quadrants Graph points with rational number coordinates on a coordinate plane.</p> <p>6.AF.8 Solve real-world and other mathematical problems by graphing points with rational number coordinates on a coordinate plane. Include the use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> | <p>2-5 Find Distances on the Coordinate Plane</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Use absolute value to find the distance between two points that lie on the same horizontal or vertical line on a coordinate plane. • Solve real-world and mathematical problems involving distances on the coordinate plane. | | <ul style="list-style-type: none"> • Solve and Discuss It • XL 2.5 • Partner Task: Problem Solving - Distance <p>Small Group: Page 104</p> |
| <p>6.AF.7 Understand that signs of numbers in ordered pairs indicate the quadrant containing the point. Identify</p> | <p>2-6 Represent Polygons on</p> | <p>SWBAT</p> | | <ul style="list-style-type: none"> • Partner Task: Problem |



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| <p>rules or patterns in the signs as they relate to the quadrants Graph points with rational number coordinates on a coordinate plane.</p> <p>6.AF.8 Solve real-world and other mathematical problems by graphing points with rational number coordinates on a coordinate plane. Include the use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> <p>6.GM.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate; apply these techniques to solve real-world and other mathematical problems.</p> | <p>the Coordinate Plane</p> | <ul style="list-style-type: none"> Find side lengths of polygons on the coordinate plane. Find the perimeter of polygons on the coordinate plane. | | <p>Solving - Distance</p> <ul style="list-style-type: none"> XL 2.6 <p>Small Group: Page 110</p> |
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| Topic #: 3 Numeric and Algebraic Expressions | | Duration: Quarter 2 October-November | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.C.5 Evaluate positive rational numbers with whole number exponents.</p> | <p>3-1 Understand and Represent Exponents</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write expressions using whole-number exponents to represent real-world and mathematical problems. | <ul style="list-style-type: none"> base evaluate exponent power | <ul style="list-style-type: none"> Quizizz: Exponents XL 3.1 |



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| | | <ul style="list-style-type: none"> Evaluate expressions with whole-number exponents. | | Small Group: Pg. 128: 34, 35, 37, 38, 39 |
| <p>6.NS.6 Identify and explain prime and composite numbers.</p> <p>6.NS.7 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers from 1 to 100, with a common factor as a multiple of a sum of two whole numbers with no common factor.</p> | 3-2 Find Greatest Common Factor and Least Common Multiple | <p>SWBAT</p> <ul style="list-style-type: none"> Find the prime factorization of a whole number. Find the greatest common factor(GCF) and the least common multiple (LCM) of two whole numbers. Use the GCF and the Distributive Property to add. Use the GCF and the LCM to solve problems. | <ul style="list-style-type: none"> composite number factor tree greatest common factor (GCF) least common multiple (LCM) prime factorization prime number | <ul style="list-style-type: none"> Factor Trees Ladder Method XL 3.2 Edulastic: LCM and GCF <p>Small Group: Page 135: 37,38, 39, 41, 42</p> |
| <p>6.C.5 Evaluate positive rational numbers with whole number exponents.</p> <p>6.C.6 Apply the order of operations and properties of operations (identity, inverse, commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property) to evaluate numerical expressions with nonnegative rational numbers, including those using grouping symbols, such as parentheses, and involving whole number exponents.</p> | 3-3 Write and Evaluate Numerical Expressions | <p>SWBAT</p> <ul style="list-style-type: none"> Evaluate expressions using the order of operations. Insert grouping symbols in a numerical expression to affect the value of the expression. | <ul style="list-style-type: none"> numerical expression | <ul style="list-style-type: none"> PEMDAS: Sequence Sort Mr. Neusbaum online game Quizizz <p>Small Group: Pg. 144</p> |



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| <p>6.AF.3 Define and use multiple variables when writing expressions to represent real-world and other mathematical problems, and evaluate them for given values.</p> | <p>3-4 Write Algebraic Expressions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write an algebraic expression to model a pattern. Write an algebraic expression from a word phrase. Use precise mathematical language when identifying parts of an expression. | <ul style="list-style-type: none"> algebraic expression coefficient term variable | <ul style="list-style-type: none"> PowerPoint XL 3.4 <p>Small Group: Page 150</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> <p>6.AF.3 Define and use multiple variables when writing expressions to represent real-world and other mathematical problems, and evaluate them for given values.</p> | <p>3-5 Evaluate Algebraic Expressions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Evaluate algebraic expressions, including those with whole numbers, decimals, and fractions. | <ul style="list-style-type: none"> substitution | <ul style="list-style-type: none"> XL 3.5 Quizizz Expressions vocabulary / Using substitution to evaluate expressions <p>Small Group: Pg. 156</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> | <p>3-Act Mathematical Modeling Lesson (Supplement)</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"> <p>Small Group:</p> |

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| <p>6.AF.3 Define and use multiple variables when writing expressions to represent real-world and other mathematical problems, and evaluate them for given values.</p> | | <ul style="list-style-type: none"> Explain why the results from their mathematical models may not align exactly to the problem situation. | | |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> <p>6.AF.2 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions and to justify whether two linear expressions are equivalent when the two expressions name the same number regardless of which value is substituted into them.</p> | <p>3-6 Generate Equivalent Expressions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write equivalent algebraic expressions. Identify equivalent algebraic expressions. Justify whether two expressions are equivalent. | <ul style="list-style-type: none"> equivalent expressions | <ul style="list-style-type: none"> XL 3.6 <p>Small Group: Pg. 166 25-27, 28, 34, 35</p> |
| <p>6.AF.2 Apply the properties of operations (e.g., identity, inverse, commutative, associative, distributive properties) to create equivalent linear expressions and to justify whether two linear expressions are equivalent when the two expressions name the same number regardless of which value is substituted into them.</p> | <p>3-7 Simplify Algebraic Expressions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use properties of operations to simplify algebraic expressions by combining like terms. | <ul style="list-style-type: none"> like terms simplify | <ul style="list-style-type: none"> XL 3.7 Quizizz: 6th Grade – Simplifying Expressions <p>Small Group: Pg. 172 27-29, 33, 35</p> |




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| Topic #: 4 Represent and Solve Equations and Inequalities | | Duration: Quarter 2/3 November-January | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.AF.4 Understand that solving an equation or inequality is the process of answering the following question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p> | <p>4-1 Understand Equations and Solutions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Identify equations and variables. Use substitution to find solutions to equations. | <ul style="list-style-type: none"> equation solution of an equation | <ul style="list-style-type: none"> Tile Math <p>Small Group: Hands on Equations Activity</p> |
| <p>6.AF.5 Solve equations of the form $x + p = q$, $x - p = q$, $px = q$, and $xp = q$ fluently for cases in which p, q and x are all nonnegative rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p> | <p>4-2 Apply Properties of Equality</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use the properties of equality to keep both sides of an equation equal. Identify which properties of equality are used to write equivalent expressions. | <ul style="list-style-type: none"> Addition Property of Equality Subtraction Property of Equality Multiplication Property of Equality Division Property of Equality | <ul style="list-style-type: none"> Tile Math <p>Small Group: Hands on Equations Activity</p> |
| <p>6.AF.5 Solve equations of the form $x + p = q$, $x - p = q$, $px = q$, and $xp = q$ fluently for cases in which p, q and x are all nonnegative rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p> | <p>4-3 Write and Solve Addition and Subtraction Equations</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write one-variable addition and subtraction equations. Use inverse relationships and properties of equality to solve one-step addition and subtraction equations. | <ul style="list-style-type: none"> inverse relationship | <ul style="list-style-type: none"> Solveme.org XL 4.3 <p>Small Group: Page 202</p> |

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| <p>6.AF.5 Solve equations of the form $x + p = q$, $x - p = q$, $px = q$, and $xp = q$ fluently for cases in which p, q and x are all nonnegative rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p> | <p>4-4 Write and Solve Multiplication and Division Equations</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write one-variable multiplication and division equations. Use inverse relationships and properties of equality to solve one-step multiplication and division equations. | | <ul style="list-style-type: none"> Quizizz: one-step equations XL 4.4 Edulastic Quiz <p>Topic 4: lessons 3 & 4</p> <p>Small Group: Page 208</p> |
| <p>6.AF.5 Solve equations of the form $x + p = q$, $x - p = q$, $px = q$, and $xp = q$ fluently for cases in which p, q and x are all nonnegative rational numbers. Represent real-world problems using equations of these forms and solve such problems.</p> | <p>4-5 Write and Solve Equations with Rational Numbers</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Write and solve equations that involve fractions, decimals, and mixed numbers. | | <ul style="list-style-type: none"> Triangle puzzle Word Problems <p>Small Group: Pgs. 215 and 216</p> |
| <p>6.AF.4 Understand that solving an equation or inequality is the process of answering the following question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p> <p>6.AF.6 Write an inequality of the form $x > c$, $x \geq c$, $x < c$, or $x \leq c$, where c is a rational number, to represent a constraint or condition in a real-world or</p> | <p>4-6 Understand and Write Inequalities</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Understand the symbols required to write an inequality. Write inequalities to describe mathematical or real-world situations. | <p>inequality</p> | <ul style="list-style-type: none"> Inequality Sort: Understanding Vocabulary of Inequalities Quizizz  <p>Small Group:</p> |

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| <p>other mathematical problem. Recognize inequalities have infinitely many solutions and represent solutions on a number line diagram.</p> | | | | |
| <p>6.AF.4 Understand that solving an equation or inequality is the process of answering the following question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p> <p>6.AF.6 Write an inequality of the form $x > c$, $x \geq c$, $x < c$, or $x \leq c$, where c is a rational number, to represent a constraint or condition in a real-world or other mathematical problem. Recognize inequalities have infinitely many solutions and represent solutions on a number line diagram.</p> | <p>4-7 Solve Inequalities</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Describe solutions to an inequality. Represent solutions to an inequality on a number line. | | <ul style="list-style-type: none"> Understanding Inequalities WS Dominoes...in equality set <p>Small Group: WB page 230 or back of Inequality WS</p> |
| <p>6.AF.4 Understand that solving an equation or inequality is the process of answering the following question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p> <p>6.AF.6 Write an inequality of the form $x > c$, $x \geq c$, $x < c$, or $x \leq c$, where c is a</p> | <p>3-Act Mathematical Modeling Lesson (Supplement)</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 math models. Explain why the results from mathematical models | | <ul style="list-style-type: none"> Small Group: |

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| <p>rational number, to represent a constraint or condition in a real-world or other mathematical problem. Recognize inequalities have infinitely many solutions and represent solutions on a number line diagram.</p> | | <p>may not align exactly to the problem situation.</p> | | |
| <p>6.AF.10 Use variables to represent two quantities in a proportional relationship in a real-world problem; write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> | <p>4-8 Understand Dependent and Independent Variables</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Identify dependent variables. Identify independent variables. | <ul style="list-style-type: none"> dependent variable independent variable | <ul style="list-style-type: none"> Visual models (boxes) Variable Maze Quizlet.live <p>Independent Variables and Dependent Variables</p> <p>12 terms Images 5 (1)</p> <p>esimmoe721 Preview</p> |
| <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.</p> <p>6.AF.10 Use variables to represent two quantities in a proportional relationship in a real-world problem; write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> | <p>4-9 Use Patterns to Write and Solve Equations</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Analyze the relationships between variables by using tables. Write equations to represent the relationships between variables. | | <ul style="list-style-type: none"> Examples & Try Its Do You Know How? <p>Small Group: Page 246</p> |



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| <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.</p> <p>6.AF.10 Use variables to represent two quantities in a proportional relationship in a real-world problem; write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> | <p>4-10 Relate Tables, Graphs, and Equations</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Analyze the relationship between dependent and independent variables using tables, graphs, and equations. | | <ul style="list-style-type: none"> One Step Inequality Sort (3-colored set) Examples & Try Its. Do You Know How? <p>Small Group: Page 252</p> |
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| Topic #: 5 Understand and Use Ratio and Rate | | Duration: Quarter 3 January-February | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> | <p>5-1 Understand Ratios</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use ratios to describe the relationship between two quantities. Use bar diagrams and double number line diagrams to model ratio relationships. | <ul style="list-style-type: none"> ratio terms | <ul style="list-style-type: none"> Blooket Quizlet Live XL 5.1 <p>Small Group: Page 272</p> |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows</p> | <p>5-2 Generate Equivalent Ratios</p> | <p>SWBAT</p> | <ul style="list-style-type: none"> circumference diameter | <ul style="list-style-type: none"> XL 5.2 Edulastic |



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

Grade Level: 6 Subject: Math

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| <p>the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.</p> | | <ul style="list-style-type: none"> • Use multiplication and division to find equivalent ratios. • Solve problems by finding equivalent ratios. | <ul style="list-style-type: none"> • equivalent ratios • Pi | <p>Small Group: Page 278</p> |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the</p> | <p>5-3 Compare Ratios</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Use ratio tables to compare ratios. • Compare ratios to solve problems. | | <ul style="list-style-type: none"> • XL 5.3 • Edulastic <p>Small Group: Page 284 (13-15)</p> |



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

Grade Level: 6 Subject: Math

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| tables, and plot the pairs of values on the coordinate plane. | | | | |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.</p> | 5-4 Represent and Graph Ratios | <p>SWBAT</p> <ul style="list-style-type: none"> • Represent equivalent ratios on graphs. • Use ratio tables and graphs to solve problems. | | <ul style="list-style-type: none"> • XL 5.4 <p>Small Group:</p> |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> <p>6.NS.9 Understand the concept of a unit rate and use terms related to rate in the context of a ratio relationship.</p> | 5-5 Understand Rates and Unit Rates | <p>SWBAT</p> <ul style="list-style-type: none"> • Use rates to describe ratios in which the terms have different units. • Use rates and unit rates to solve problems. | <ul style="list-style-type: none"> • rate • unit rate | <ul style="list-style-type: none"> • XL 5.5 • Mid-Topic Assessment <p>Small Group: Page 298</p> |



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

Grade Level: 6

Subject: Math

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| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.AF.9 Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.</p> | | | | |
| <p>6.NS.8 Interpret, model, and use ratios to show the relative sizes of two quantities. Describe how a ratio shows the relationship between two quantities. Use the following notations: ab, a to b, $a:b$.</p> <p>6.NS.9 Understand the concept of a unit rate and use terms related to rate in the context of a ratio relationship.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | <p>5-6 Compare Unit Rates</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use ratio reasoning to compare rates and solve problems. | <ul style="list-style-type: none"> unit price | <ul style="list-style-type: none"> PowerPoint Slides XL 5.6 <p>Small Group: Page 304</p> |
| <p>6.NS.9 Understand the concept of a unit rate and use terms related to rate in the context of a ratio relationship.</p> | <p>5-7 Solve Unit Rate Problems</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use unit rates to solve problems involving constant speed. | <ul style="list-style-type: none"> constant speed | <ul style="list-style-type: none"> XL 5.7 Pages 334-338 |



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

Grade Level: 6 Subject: Math

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| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | | <ul style="list-style-type: none"> • Use unit rates to solve problems involving unit price. • Solve unit rate problems using an equation. | | <p>Small Group: Page 310</p> |
| <p>6.NS.9 Understand the concept of a unit rate and use terms related to rate in the context of a ratio relationship.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | <p>3-Act Mathematical Modeling (Supplement)</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. | | |
| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.GM.1 Convert between measurement systems (English to metric and metric to English) given conversion factors, and use these conversions in solving real-world problems.</p> | <p>5-8 Ratio Reasoning: Convert Customary Units</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Use ratio reasoning and conversion factors to convert customary units of measure. | <ul style="list-style-type: none"> • conversion factor • dimensional analysis | <ul style="list-style-type: none"> • Conversion Charts <p>Small Group: Pg. 320</p> |



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

Grade Level: 6 Subject: Math

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| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.GM.1 Convert between measurement systems (English to metric and metric to English) given conversion factors, and use these conversions in solving real-world problems.</p> | <p>5-9 Ratio Reasoning: Convert Metric Units</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use ratio reasoning and conversion factors to convert metric units of measure. | | <ul style="list-style-type: none"> Conversion Charts <p>Small Group: Pg. 326</p> |
| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> <p>6.GM.1 Convert between measurement systems (English to metric and metric to English) given conversion factors, and use these conversions in solving real-world problems.</p> | <p>5-10 Relate Customary and Metric Units</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use ratio reasoning and conversion factors to convert between customary and metric units of measure. | | <ul style="list-style-type: none"> Conversion Charts <p>Small Group: Pg. 332</p> |

| Topic #: 6 Understand and Use Percent | | Duration: Quarter 3 February | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two</p> | <p>6-1 Understand Percent</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Represent the percent of a whole. | <ul style="list-style-type: none"> percent | <ul style="list-style-type: none"> Quizlet Live: Fractions, Decimals & % |

Grade Level: 6 Subject: Math

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| representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator. | | <ul style="list-style-type: none"> Find the percent of a whole. | | Small Group: Page 352 |
| 6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator. | 6-2 Relate Fractions, Decimals, and Percents | SWBAT: <ul style="list-style-type: none"> Write equivalent values as fractions, decimals, and percents. Write fractions as decimals and percents when the denominator of the fraction is not 100. | | <ul style="list-style-type: none"> XL 6.2 Practice Slides Small Group: Page 358 |
| 6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator. | 6-3 Represent Percents Greater Than 100 or Less Than 1 | SWBAT <ul style="list-style-type: none"> Write percents that are greater than 100. Write percents that are less than 1. | | <ul style="list-style-type: none"> Quizizz Practice Slides Small Group: Page 364 |
| 6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator. | 6-4 Estimate to Find Percent | SWBAT estimate the percent of a number. | | <ul style="list-style-type: none"> XL 6.4 Small Group: Page 372 |



Critical (1/3)
 Moderate (0/2)
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Grade Level: 6

Subject: Math

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| <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | | | | |
| <p>6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | <p>6-5 Find the Percent of a Number</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use the decimal form of a percent to find the percent of a number. Write an equation to solve a percent problem. | | <ul style="list-style-type: none"> XL 6.5 <p>Small Group: Page 378</p> |
| <p>6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent</p> | <p>6-6 Find the Whole Given a Part and the Percent</p> | <p>SWBAT find the whole amount when given a part and the percent.</p> | | <ul style="list-style-type: none"> Topics 1-6 Review <p>Small Group: Pg. 384</p> |



Critical (1/3)
 Moderate (0/2)
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Grade Level: 6 Subject: Math

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| ratios, tape diagrams, double number line diagrams, or equations). | | | | |
| <p>6.NS.5 Know commonly used fractions (halves, thirds, fourths, fifths, eighths, tenths) and their decimal and percent equivalents. Convert between any two representations (fractions, decimals, percents) of positive rational numbers without the use of a calculator.</p> <p>6.NS.10 Use reasoning involving rates and ratios to model real-world and other mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).</p> | 3-Act Mathematical Modeling Lesson (Supplement) | <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"> <p>Small Group:</p> |

| Topic #: 7 Solve Area, Surface Area, and Volume Problems | | Duration: Quarter 3, 4 March | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.GM.2 Know that the sum of the interior angles of any triangle is 180° and that the sum of the interior angles of any quadrilateral is 360°. Use this information to solve real-world and mathematical problems.</p> | IN-1 Angles of Triangles and Quadrilaterals | <p>SWBAT</p> <ul style="list-style-type: none"> determine unknown measures of interior angles of triangles and quadrilaterals. write and solve algebraic equations to find angle measures. | | <ul style="list-style-type: none"> Lesson Quiz Worksheet <p>Small Group: IN 5-6</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from</p> | 7-1 Find Areas of Parallelograms | <p>SWBAT</p> <ul style="list-style-type: none"> Use a formula to find the areas of parallelograms and rhombuses. | | <ul style="list-style-type: none"> Quizizz XL 7.1 |



Critical (1/3)
 Moderate (0/2)
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Grade Level: 6 Subject: Math

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| <p>formulas used in geometry and other real-world problems.</p> <p>6.GM.4 Find the area of complex shapes composed of polygons by composing or decomposing into simple shapes; apply this technique to solve real-world and other mathematical problems.</p> | and Rhombuses | <ul style="list-style-type: none"> Find the base or height of a parallelogram or rhombus when the area and the height or base are known. | | Small Group: Pg. 406 |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> <p>6.GM.4 Find the area of complex shapes composed of polygons by composing or decomposing into simple shapes; apply this technique to solve real-world and other mathematical problems.</p> | 7-2 Solve Triangle Area Problems | <p>SWBAT</p> <ul style="list-style-type: none"> Find the areas of triangles, including right triangles. Find the corresponding base or height of a triangle. | | <ul style="list-style-type: none"> XL 7.2 <p>Small Group: Pg. 412</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> | 7-3 Find Areas of Trapezoids and Kites | <p>SWBAT</p> <ul style="list-style-type: none"> Find the areas of trapezoids. Find the areas of kites. | <ul style="list-style-type: none"> kite | <ul style="list-style-type: none"> XL 7.3 Worksheet Formula for a trapezoid – 2nd day <p>Small Group: Pg. 418</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from</p> | 7-4 Find Areas of Polygons | <p>SWBAT find the areas of polygons by composing and decomposing shapes, including polygons on the coordinate plane.</p> | | <ul style="list-style-type: none"> XL 7.4 <p>Small Group: Pg. 424</p> |



Critical (1/3)
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Grade Level: 6

Subject: Math

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| <p>formulas used in geometry and other real-world problems.</p> <p>6.GM.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate; apply these techniques to solve real-world and other mathematical problems.</p> <p>6.GM.4 Find the area of complex shapes composed of polygons by composing or decomposing into simple shapes; apply this technique to solve real-world and other mathematical problems.</p> | | | | |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> <p>6.GM.6 Construct right rectangular prisms from nets and use the nets to compute the surface area of prisms; apply this technique to solve real-world and other mathematical problems.</p> | <p>7-5 Represent Solid Figures Using Nets</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Classify solid figures. Identify solid figures from nets. Draw nets of solid figures. | <ul style="list-style-type: none"> base edge face net polyhedron vertex | <ul style="list-style-type: none"> 3-D Models Quizizz <p>Quizizz #45 Identify Nets</p> <p>Small Group: Pg. 432</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from</p> | <p>3-Act Mathematical Modeling</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Use mathematical modeling to represent a | | <ul style="list-style-type: none"> <p>Small Group:</p> |

Grade Level: 6 Subject: Math

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| <p>formulas used in geometry and other real-world problems.</p> <p>6.GM.6 Construct right rectangular prisms from nets and use the nets to compute the surface area of prisms; apply this technique to solve real-world and other mathematical problems.</p> | <p>Lesson (Supplement)</p> | <p>problem situation and to propose a solution.</p> <ul style="list-style-type: none"> • Test and verify the appropriateness of math models. • Explain why the results from mathematical models may not align exactly to the problem situation. | | |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> <p>6.GM.6 Construct right rectangular prisms from nets and use the nets to compute the surface area of prisms; apply this technique to solve real-world and other mathematical problems.</p> | <p>7-6 Find Surface Areas of Prisms</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Find the surface area of rectangular prisms, including cubes. • Find the surface area of triangular prisms. | | <ul style="list-style-type: none"> • XL 7.6 <p>Small Group: All meet at the same time: Page 441 (8-13)</p> <p>Groups: Day 2 Page 442 (18, 19, 24, 25)</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from formulas used in geometry and other real-world problems.</p> | <p>7-7 Find Surface Areas of Pyramids</p> | <p>SWBAT find the surface areas of square and triangular pyramids.</p> | | <ul style="list-style-type: none"> • Error Analysis over Topic 7 concepts <p>Group Presentations</p> |
| <p>6.AF.1 Evaluate expressions for specific values of their variables, including expressions with whole-number exponents and those that arise from</p> | <p>7-8 Find Volume with Fractional Edge Lengths</p> | <p>SWBAT use cubes and a formula to find the volume of a rectangular prism or a cube with fractional edge lengths.</p> | | <ul style="list-style-type: none"> • Practice – Pg. 453 • XL 7.8 |



Critical (1/3)
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Grade Level: 6

Subject: Math

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| <p>formulas used in geometry and other real-world problems.</p> <p>6.GM.5 Find the volume of a right rectangular prism with fractional edge lengths using unit cubes of the appropriate unit fraction edge lengths (e.g., using technology or concrete materials), and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = Bh$ to find volumes of right rectangular prisms with fractional edge lengths to solve real-world and other mathematical problems.</p> <p>6.GM.6 Construct right rectangular prisms from nets and use the nets to compute the surface area of prisms; apply this technique to solve real-world and other mathematical problems.</p> | | | | <p>Small Group: Pg. 454 (15, 18-20)</p> |
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| Topic #: 8 Display, Describe, and Summarize Data | | Duration: Quarter 4 April | | |
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| Standard(s) | Envision Lesson | Objective | Vocabulary | Materials |
| <p>6.DS.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for the variability in the answers. Understand that a set of data collected to</p> | <p>8-1 Recognize Statistical Questions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> Identify statistical questions. | <ul style="list-style-type: none"> statistical question | <ul style="list-style-type: none"> PowerPoint Slides with examples Quizizz practice |

Grade Level: 6

Subject: Math

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| <p>answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</p> <p>6.DS.3 Formulate statistical questions; collect and organize the data (e.g., using technology); display and interpret the data with graphical representations (e.g., using technology).</p> | | <ul style="list-style-type: none"> Write statistical questions and display the collected data. | | <ul style="list-style-type: none"> Collecting data activity |
| <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <ol style="list-style-type: none"> report the number of observations describe the nature of the attribute under investigation, including how it was measured and its units of measurement determine quantitative measures of center (mean and/or median) and spread(range and interquartile range) d. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread to the shape of the data distribution and the context in which the data were gathered | <p>8-2 Summarize Data Using Mean, Median, Mode, and Range</p> | <p>SWBAT determine the mean, median, mode, and range of a data set.</p> | <ul style="list-style-type: none"> mean median mode range | <ul style="list-style-type: none"> XL 8.2 Day 2: Use data collected day 1 to create line plots. (Measures of Center) <p>Small Group: Pg. 482 (24-29)</p> |

Grade Level: **6** Subject: **Math**

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| <p>6.DS.2 Select, create, and interpret graphical representations of numerical data, including line plots, histograms, and box plots.</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <ul style="list-style-type: none"> A. report the number of observations B. describe the nature of the attribute under investigation, including how it was measured and its units of measurement C. determine quantitative measures of center (mean and/or median) and spread(range and interquartile range) D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread | <p>8-3 Display Data in Box Plots</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • display data in a box plot. • interpret and analyze a box plot. | <ul style="list-style-type: none"> • box plot • quartiles | <ul style="list-style-type: none"> • XL 8.3 • Partner Practice: Pg. 487 (9-16) • Human Box Plots <p>Small Group: Pg. 488 (17-22)</p> |
| <p>6.DS.2 Select, create, and interpret graphical representations of numerical data, including line plots, histograms, and box plots.</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> | <p>8-4 Display Data in Frequency Tables and Histograms</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Organize data into equal intervals and display data in a frequency table or histogram. • Interpret and analyze a histogram. | <ul style="list-style-type: none"> • frequency table • histogram | <ul style="list-style-type: none"> • Edulastic – Histograms • Quiz 8.4 <p>Small Group: Page 494 (15-18)</p> |



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

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Subject: Math

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| <p>A. report the number of observations</p> <p>B. describe the nature of the attribute under investigation, including how it was measured and its units of measurement</p> <p>C. determine quantitative measures of center (mean and/or median) and spread(range and interquartile range)</p> <p>D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread</p> | | | | <p>Mid-Topic Checkpoint: Page 495</p> |
| <p>6.DS.2 Select, create, and interpret graphical representations of numerical data, including line plots, histograms, and box plots.</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <p>A. report the number of observations</p> <p>B. describe the nature of the attribute under investigation, including how it was measured and its units of measurement</p> <p>C. determine quantitative measures of center (mean and/or median)</p> | <p>8-5 Summarize Data Using Measures of Variability</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Calculate the mean absolute deviation (MAD) and interquartile range (IQR) of a data set. • Summarize data using measures of variability. | <ul style="list-style-type: none"> • absolute deviation • mean absolute deviation (MAD) • interquartile range (IQR) • Peak • Outlier • Gap • Skewed • Clusters | <ul style="list-style-type: none"> • XL 8.5 <p>Small Group: Page 502 (15-20)</p> |



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

Grade Level: 6

Subject: Math

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| <p>and spread(range and interquartile range)</p> <p>D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread</p> | | | | |
| <p>6.DS.2 Select, create, and interpret graphical representations of numerical data, including line plots, histograms, and box plots.</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <p>A. report the number of observations</p> <p>B. describe the nature of the attribute under investigation, including how it was measured and its units of measurement</p> <p>C. determine quantitative measures of center (mean and/or median) and spread(range and interquartile range)</p> <p>D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread</p> | <p>8-6 Choose Appropriate Statistical Measures</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Select the most appropriate measure of center and variability for a data set. • Use measures to describe data sets. | <ul style="list-style-type: none"> • Outlier • Mean • Median • Mode • IQR • MAD | <ul style="list-style-type: none"> • PowerPoint Slides reviewing and practicing Measures of Center <p>Small Group: Page 508 (13-19)</p> |



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

Grade Level: 6 Subject: Math

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| <p>6.DS.2 Select, create, and interpret graphical representations of numerical data, including line plots, histograms, and box plots.</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <ul style="list-style-type: none"> A. report the number of observations B. describe the nature of the attribute under investigation, including how it was measured and its units of measurement C. determine quantitative measures of center (mean and/or median) and spread(range and interquartile range) D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread | <p>8-7 Summarize Data Distributions</p> | <p>SWBAT</p> <ul style="list-style-type: none"> • Describe the center, spread, and overall shape of a data set. • Summarize numerical data sets using measures of center and related measures of variability. | <ul style="list-style-type: none"> • data distribution | <ul style="list-style-type: none"> • XL 8.7 <p>Small Group: Page 514 (11-16)</p> |
| <p>6.DS.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for the variability in the answers. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</p> | <p>3-Act Mathematical Modeling (Supplement)</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"> • <p>Small Group:</p> |



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

Grade Level: 6

Subject: Math

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| <p>6.DS.3 Formulate statistical questions; collect and organize the data (e.g., using technology); display and interpret the data with graphical representations (e.g., using technology).</p> <p>6.DS.4 Summarize numerical data sets in relation to their context in multiple ways, such as:</p> <ul style="list-style-type: none">A. report the number of observationsB. describe the nature of the attribute under investigation, including how it was measured and its units of measurementC. determine quantitative measures of center (mean and/or median) and spread(range and interquartile range)D. describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered relate the choice of measures of center and spread | | <ul style="list-style-type: none">• Explain why the results from their mathematical models may not align exactly to the problem situation. | | |
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