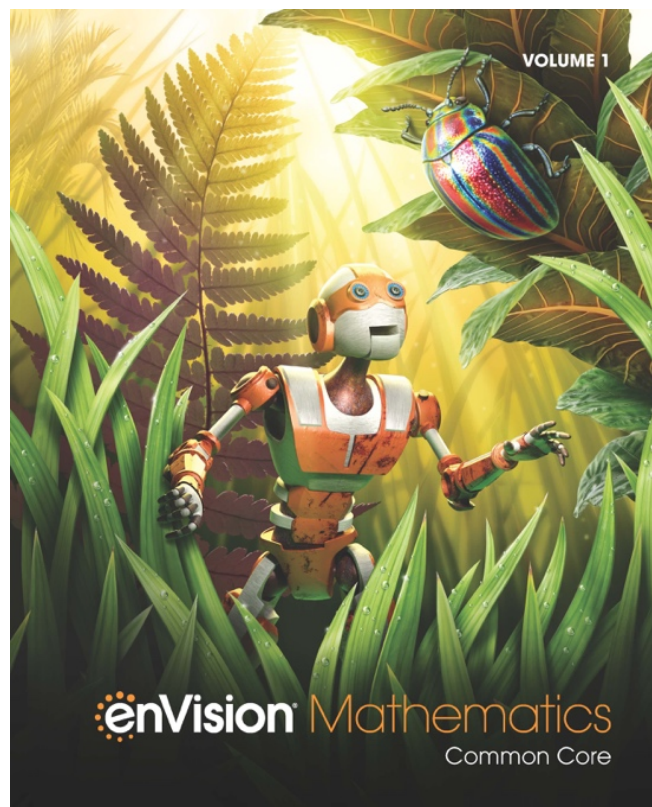


An Alignment of the  
**Common Core State Standards  
for Mathematics  
Grade 6**

to the Lessons of

**enVision** Mathematics

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enVision Mathematics, ©2021 Grade 6 Lessons	Common Core State Standards for Mathematics Grade 6
<b>Topic 1 Use Positive Rational Numbers</b>	
1-1 Fluently Add, Subtract, and Multiply Decimals	<p><b>6.NS.B.3</b> Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.</p> <p><b>MP.5:</b> Use appropriate tools strategically. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>
1-2 Fluently Divide Whole Numbers and Decimals	<p><b>6.NS.B.2</b> Fluently divide multi-digit numbers using the standard algorithm.</p> <p><b>6.NS.B.3</b> Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>
1-3 Multiply Fractions	<p><b>6.NS.A.1</b> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision.</p>
3-Act Mathematical Modeling, Video	<p><b>6.NS.B.3</b> Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>1-4 Understand Division with Fractions</p>	<p><b>6.NS.A.1</b> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
<p>1-5 Divide Fractions by Fractions</p>	<p><b>6.NS.A.1</b> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.</p> <p><b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
<p>1-6 Divide Mixed Numbers</p>	<p><b>6.NS.A.1</b> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>1-7 Solve Problems with Rational Numbers</p>	<p><b>6.NS.A.1</b> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision.</p>

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<b>Topic 2 Integers and Rational Numbers</b>	
2-1 Understand Integers	<p><b>6.NS.C. 5</b> Understand that positive and negative numbers are used together 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 quantities in real-world contexts, explaining the meaning of 0 in each situation.</p> <p><b>6.NS.C.6a</b> 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., <math>-(-3) = 3</math>, and that 0 is its own opposite.</p> <p><b>6.NS.C.6c</b> Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
2-2 Represent Rational Numbers on the Number Line	<p><b>6.NS.C.6c</b> Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p> <p><b>6.NS.C.7a</b> Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.</p> <p><b>6.NS.C.7b</b> Write, interpret, and explain statements of order for rational numbers in real-world contexts.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>2-3 Absolute Values of Rational Numbers</p>	<p><b>6NS.C.7c</b> Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.</p> <p><b>6NS.C.7d</b> Distinguish comparisons of absolute value from statements about order.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure.</p>
<p>2-4 Represent Rational Numbers on the Coordinate Plane</p>	<p><b>6NS.C.6b</b> Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p> <p><b>6NS.C.6c</b> Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>3-Act Mathematical Modeling</p>	<p><b>6NS.C.7d</b> Distinguish comparisons of absolute value from statements about order.</p> <p><b>6NS.C.5</b> Understand that positive and negative numbers are used together 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 quantities in real-world contexts, explaining the meaning of 0 in each situation.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>2-5 Find Distances on the Coordinate Plane</p>	<p><b>6NS.C.8</b> Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.7:</b> Look for and make use of structure.</p>
<p>2-6 Represent Polygons on the Coordinate Plane</p>	<p><b>6NS.C.8</b> Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> <p><b>6G.A.3</b> 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 in the context of solving real-world and mathematical problems.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<b>Topic 3 Numeric and Algebraic Expressions</b>	
3-1 Understand and Represent Exponents	<p><b>6EE.A.1</b> Write and evaluate numerical expressions involving whole-number exponents.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
3-2 Find Greatest Common Factor and Least Common Multiple	<p><b>6NS.B.4</b> 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 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.</p> <p><b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
3-3 Write and Evaluate Numerical Expressions	<p><b>6EE.A.1</b> Write and evaluate numerical expressions involving whole-number exponents.</p> <p><b>6EE.A.3</b> Apply the properties of operations to generate equivalent expressions.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>



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<p>3-4 Write Algebraic Expressions</p>	<p><b>6EE.A.2a</b> Write expressions that record operations with numbers and with letters standing for numbers.</p> <p><b>6EE.A.2b</b> Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
<p>3-5 Evaluate Algebraic Expressions</p>	<p><b>6EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>

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3-Act Mathematical Modeling	<p><b>6EE.A.2</b> Write, read, and evaluate expressions in which letters stand for numbers.</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
3-6 Generate Equivalent Expressions	<p><b>6EE.A.3</b> Apply the properties of operations to generate equivalent expressions.</p> <p><b>6EE.A.4</b> Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
3-7 Simplify Algebraic Expressions	<p><b>6EE.A.3</b> Apply the properties of operations to generate equivalent expressions.</p> <p><b>6EE.A.4</b> Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.6:</b> Attend to precision.  <b>MP.7:</b> Look for and make use of structure.</p>

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<b>Topic 4 Represent and Solve Equations and Inequalities</b>	
4-1 Understand Equations and Solutions	<p><b>6EE.B.5</b> Understand solving an equation or inequality as a process of answering a 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><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
4-2 Apply Properties of Equality	<p><b>6EE.A.4</b> Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).</p> <p><b>6EE.B.7</b> Solve real-world and mathematical problems by writing and solving equations of the form <math>x + p = q</math> and <math>px = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
4-3 Write and Solve Addition and Subtraction Equations	<p><b>6EE.B.7</b> Solve real-world and mathematical problems by writing and solving equations of the form <math>x + p = q</math> and <math>px = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically.</p>

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<p>4-4 Write and Solve Multiplication and Division Equations</p>	<p><b>6EE.B.7</b> Solve real-world and mathematical problems by writing and solving equations of the form <math>x + p = q</math> and <math>px = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>4-5 Write and Solve Equations with Rational Numbers</p>	<p><b>6EE.B.7</b> Solve real-world and mathematical problems by writing and solving equations of the form <math>x + p = q</math> and <math>px = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</p> <p><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>4-6 Understand and Write Inequalities</p>	<p><b>6EE.B.8</b> Write an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form <math>x &gt; c</math> or <math>x &lt; c</math> have infinitely many solutions; represent solutions of such inequalities on number line diagrams.</p> <p><b>6EE.B.5</b> Understand solving an equation or inequality as a process of answering a 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><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>4-7 Solve Inequalities</p>	<p><b>6EE.B.5</b> Understand solving an equation or inequality as a process of answering a 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><b>6EE.B.8</b> Write an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form <math>x &gt; c</math> or <math>x &lt; c</math> have infinitely many solutions; represent solutions of such inequalities on number line diagrams.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.6:</b> Attend to precision. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>3-Act Mathematical Modeling</p>	<p><b>6EE.B.5</b> Understand solving an equation or inequality as a process of answering a 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><b>6EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>6EE.B.8</b> Write an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form <math>x &gt; c</math> or <math>x &lt; c</math> have infinitely many solutions; represent solutions of such inequalities on number line diagrams.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.6:</b> Attend to precision.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>4-8 Understand Independent and Dependent Variables</p>	<p><b>6EE.C.9</b> Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.</p>

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<p>4-9 Use Patterns to Write and Solve Equations</p>	<p><b>6EE.C.9</b> Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.7:</b> Look for and make use of structure.</p>
<p>4-10 Relate Tables, Graphs, and Equations</p>	<p><b>6EE.C.9</b> Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
<p><b>Topic 5 Understand and Use Ratio and Rate</b></p>	
<p>5-1 Understand Ratios</p>	<p><b>6.RP.A.1</b> Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.</p> <p><b>6.RP.A.3</b> Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics.</p>

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<p>5-2 Generate Equivalent Ratios</p>	<p><b>6.RP.A.3a</b> 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. Use tables to compare ratios.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>5-3 Compare Ratios</p>	<p><b>6.RP.A.3a</b> 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. Use tables to compare ratios.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
<p>5-4 Represent and Graph Ratios</p>	<p><b>6.RP.A.3a</b> 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. Use tables to compare ratios.</p> <p><b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>



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5-5 Understand Rates and Unit Rates	<p><b>6.RP.A.2</b> Understand the concept of a unit rate <math>a/b</math> associated with a ratio <math>a:b</math> with <math>b \neq 0</math>, and use rate language in the context of a ratio relationship.</p> <p><b>6.RP.A.3a</b> 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. Use tables to compare ratios.</p> <p><b>6.RP.A.3b</b> Solve unit rate problems including those involving unit pricing and constant speed.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
5-6 Compare Unit Rates	<p><b>6.RP.A.3b</b> Solve unit rate problems including those involving unit pricing and constant speed.</p> <p><b>6.RP.A.3a</b> 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. Use tables to compare ratios.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.6:</b> Attend to precision.</p>
5-7 Solve Unit Rate Problems	<p><b>6.RP.A.3b</b> Solve unit rate problems including those involving unit pricing and constant speed.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.4:</b> Model with mathematics.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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3-Act Mathematical Modeling	<p><b>6.RP.A.3b</b> Solve unit rate problems including those involving unit pricing and constant speed.</p> <p><b>6.RP.A.2</b> Understand the concept of a unit rate <math>a/b</math> associated with a ratio <math>a:b</math> with <math>b \neq 0</math>, and use rate language in the context of a ratio relationship.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
5-8 Ratio Reasoning: Convert Customary Units	<p><b>6.RP.A.3d</b> Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.</p>
5-9 Ratio Reasoning: Convert Metric Units	<p><b>6.RP.A.3d</b> Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p> <p><b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.6:</b> Attend to precision.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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enVision Mathematics, ©2021 Grade 6 Lessons	Common Core State Standards for Mathematics Grade 6
5-10 Relate Customary and Metric Units	<p><b>6.RP.A.3d</b> Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<b>Topic 6 Understand and Use Percent</b>	
6-1 Understand Percent	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>
6-2 Relate Fractions, Decimals, and Percents	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
6-3 Represent Percents Greater Than 100 and Less Than 1	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.7:</b> Look for and make use of structure.</p>

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<p>6-4 Estimate to Find Percent</p>	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.7:</b> Look for and make use of structure.</p>
<p>6-5 Find the Percent of a Number</p>	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.6:</b> Attend to precision. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>6-6 Find the Whole Given a Part and the Percent</p>	<p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>

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<p>3-Act Mathematical Modeling</p>	<p><b>6.RP.A.1</b> Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.</p> <p><b>6.RP.A.3c</b> Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.6:</b> Attend to precision.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p><b>Topic 7 Solve Area, Surface Area, and Volume Problems</b></p>	
<p>7-1 Find Areas of Parallelograms and Rhombuses</p>	<p><b>6.G.A.1</b> Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.6:</b> Attend to precision.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>7-2 Solve Triangle Area Problems</p>	<p><b>6.G.A.1</b> Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>7-3 Find Areas of Trapezoids and Kites</p>	<p><b>6.G.A.1</b> Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>

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<p>7-4 Find Areas of Polygons</p>	<p><b>6.G.A.1</b> Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>6.G.A.3</b> 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 in the context of solving real-world and mathematical problems.</p> <p><b>6.NS.C.6c</b> Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p> <p><b>6.NS.C.8</b> Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>
<p>7-5 Represent Solid Figures Using Nets</p>	<p><b>6.G.A.4</b> Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>

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<p>3-Act Mathematical Modeling</p>	<p><b>6.G.A.4</b> Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.2:</b> Reason abstractly and quantitatively.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.4:</b> Model with mathematics.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.7:</b> Look for and make use of structure.  <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>7-6 Find Surface Areas of Prisms</p>	<p><b>6.G.A.4</b> Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2a</b> Write expressions that record operations with numbers and with letters standing for numbers.</p> <p><b>6.EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them.  <b>MP.3:</b> Construct viable arguments and critique the reasoning of others.  <b>MP.5:</b> Use appropriate tools strategically.  <b>MP.6:</b> Attend to precision.</p>



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7-7 Find Surface Areas of Pyramids	<p><b>6.G.A.4</b> Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2a</b> Write expressions that record operations with numbers and with letters standing for numbers.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.7:</b> Look for and make use of structure.</p>

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7-8 Find Volume of Prisms with Fractional Edge Lengths	<p><b>6.G.A.2</b> Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas <math>V = l w h</math> and <math>V = b h</math> to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.</p> <p><b>6.EE.A.2a</b> Write expressions that record operations with numbers and with letters standing for numbers.</p> <p><b>6.EE.A.2c</b> Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).</p> <p><b>6.EE.B.6</b> Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure.</p>
<b>Topic 8 Display, Describe, and Summarize Data</b>	
8-1 Recognize Statistical Questions	<p><b>6.SP.A.1</b> Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</p> <p><b>6.SP.B.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>8-2 Summarize Data Using Mean, Median, Mode, and Range</p>	<p><b>6.SP.A.3</b> Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</p> <p><b>6.SP.B.5c</b> Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>8-3 Display Data in Box Plots</p>	<p><b>6.SP.B.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics.</p>
<p>8-4 Display Data in Frequency Tables and Histograms</p>	<p><b>6.SP.B.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p><b>6.SP.B.5a</b> Reporting the number of observations.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.4:</b> Model with mathematics. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>

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<p>8-5 Summarize Data Using Measures of Variability</p>	<p><b>6.SP.B.5c</b> Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p><b>6.SP.B.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p><b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics.</p>
<p>8-6 Choose Appropriate Statistical Measures</p>	<p><b>6.SP.B.5d</b> Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p><b>6.SP.B.5c</b> Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.7:</b> Look for and make use of structure.</p>

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<p>8-7 Summarize Data Distributions</p>	<p><b>6.SP.A.2</b> 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><b>6.SP.B.5b</b> Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</p> <p><b>6.SP.B.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p> <p><b>6.SP.B.5c</b> Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p><b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>
<p>3-Act Mathematical Modeling</p>	<p><b>6.SP.A.2</b> 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><b>6.SP.A.3</b> Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</p> <p><b>6.SP.B.5</b> Summarize numerical data sets in relation to their context, such as by:</p> <p><b>MP.1:</b> Make sense of problems and persevere in solving them. <b>MP.2:</b> Reason abstractly and quantitatively. <b>MP.3:</b> Construct viable arguments and critique the reasoning of others. <b>MP.4:</b> Model with mathematics. <b>MP.5:</b> Use appropriate tools strategically. <b>MP.6:</b> Attend to precision. <b>MP.7:</b> Look for and make use of structure. <b>MP.8:</b> Look for and express regularity in repeated reasoning.</p>