| Grade 6  | Grade 6H Yearlong Mathematics Map  |  |  |   |  |  |  |  |
|--|--|--|--|---|--|--|--|--|
| Resources:   | Approved from Board  | d of Education   | Assessments: PA  | RCC Assessments, Performance Series, District Bench   | imark Assessments  |  |  |  |
| Common Core State Standards – Standards for Math<br>1. Make sense of problems and persevere in solving them.<br>3. Construct viable arguments and critique the reasoning of<br>5. Use appropriate tools strategically.<br>7. Look for and make use of structure. |  |  | <ul> <li>ice:</li> <li>2. Reason abstractly and quantitatively.</li> <li>4. Model with mathematics.</li> <li>6. Attend to precision.</li> <li>8. Look for and express regularity in repeated reasoning.</li> </ul> |   |  |  |  |  |
| Domain   | Cluster  | Common Core Standard   | Content  | Skills  | Academic<br>Vocabulary   |  |  |  |
| RP   | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction 1/2/1/4 miles per hour, equivalently 2 miles per hour. | Ratio<br>Unit Rate   | 7.RP.1 Compute unit rates with ratio of fractions<br>including ratios of length, areas, and other quantities<br>of like or different units. | Complex fraction   |  |  |  |
| RP   | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2 Recognize and represent proportional relationships between quantities.  | Proportional<br>Relationships  | 7.RP.2 Identify proportional relationships between quantities.  | Proportion   |  |  |  |
| RP   | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2 Recognize and represent proportional relationships between quantities.  | Proportional<br>Relationship   | 7.RP.2 Represent proportional relationships between quantities.   | Proportion<br>Means and Extremes<br>property (Cross<br>Multiplication) |  |  |  |

| Domain | Cluster  | Common Core Standard  | Content                       | Skills   | Academic<br>Vocabulary   |
|--------|--|---|-------------------------------|--|--|
| RP     | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2a Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.                                      | Proportional<br>Relationships | proportional relationship.   | Origin<br>x-coordinate<br>y-coordinate<br>quadrant<br>x-axis<br>y-axis                       |
| RP     | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2b Identify the constant of proportionality (unit<br>rate) in tables, graphs, equations, diagrams, and verbal<br>descriptions of proportional relationships.   | Unit Rate                     | rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. | Constant of Proportionality<br>Table<br>Graphs<br>Equations                                  |
| RP     | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2c Represent proportional relationships by<br>equations. For example, if total cost t is proportional to<br>the number n of items purchased at a constant price p,<br>the relationship between the total cost and the number<br>of items can be expressed as t = pn. | Proportional<br>Relationships | 7.RP.2c Write equations to represent proportional relationships.                                     | Equation<br>Proportion   |
| RP     | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.2d Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate.   | Proportional<br>Relationships |  | Constant of Proportionality<br>Graphs<br>Equations   |
| RP     | Analyze proportional<br>relationships and use<br>them to solve real-<br>world and<br>mathematical<br>problems. | 7.RP.3 Use proportional relationships to solve multistep<br>ratio and percent problems. Examples: simple interest,<br>tax, markups and markdowns, gratuities and<br>commissions, fees, percent increase and decrease,<br>percent error.                                   | Proportional<br>Relationships | using proportional relationships.  | Proportion<br>Simple Interest<br>Percent increase<br>Percent decrease<br>Markup<br>Sales Tax |

| Domain | Cluster  | Common Core Standard   | Content          | Skills  | Academic<br>Vocabulary |
|--------|--|--|------------------|---|------------------------|
| NS     | Apply and extend<br>previous<br>understandings of<br>multiplication and<br>division to divide<br>fractions by fractions. | 6.NS.1 Interpret and compute quotients of fractions, and<br>solve word problems involving division of fractions by<br>fractions, e.g., by using visual fraction models and<br>equations to represent the problem. For example, create<br>a story context for $(2/3) \div (3/4)$ and use a visual fraction<br>model to show the quotient; use the relationship<br>between multiplication and division to explain that $(2/3)$<br>$\div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$ . (In general, $(a/b)$<br>$\div (c/d) = ad/bc$ .) How much chocolate will each person<br>get if 3 people share $1/2$ lb of chocolate equally? How<br>many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How<br>wide is a rectangular strip of land with length $3/4$ mi and<br>area $1/2$ square mi? Compute fluently with multi-digit<br>numbers and find common factors and multiples. |                  | 6.NS.1 Divide fractions using fraction models and<br>equations and solve word problems involving division<br>of fractions | Reciprocal             |
| NS     | Apply and extend<br>previous<br>understandings of<br>multiplication and<br>division to divide<br>fractions by fractions. | 6.NS.1 Interpret and compute quotients of fractions, and<br>solve word problems involving division of fractions by<br>fractions, e.g., by using visual fraction models and<br>equations to represent the problem. For example, create<br>a story context for $(2/3) \div (3/4)$ and use a visual fraction<br>model to show the quotient; use the relationship<br>between multiplication and division to explain that $(2/3)$<br>$\div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$ . (In general, $(a/b)$<br>$\div (c/d) = ad/bc$ .) How much chocolate will each person<br>get if 3 people share $1/2$ lb of chocolate equally? How<br>many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How<br>wide is a rectangular strip of land with length $3/4$ mi and<br>area $1/2$ square mi? Compute fluently with multi-digit<br>numbers and find common factors and multiples. | Common Multiples | 6.NS.1 Find common factors and multiples of multi-<br>digit numbers   |                        |

| Domain | Cluster   | Common Core Standard  | Content  | Skills  | Academic<br>Vocabulary |
|--------|---|---|--|---|------------------------|
| NS     | Compute fluently with<br>multi-digit numbers<br>and find common<br>factors and multiples.             | 6.NS.3 Fluently add, subtract, multiply, and divide multi-<br>digit decimals using the standard algorithm for each<br>operation.  | Addition,<br>Subtraction,<br>Multiplication, and<br>Division of Decimals | 6.NS.3 Compute addition, subtraction, multiplication, and division with multi-digit decimals  |                        |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.5 Understand that positive and negative numbers<br>are used together to describe quantities having opposite<br>directions or values (e.g., temperature above/below zero,<br>elevation above/below sea level, credits/debits,<br>positive/negative electric charge); use positive and<br>negative numbers to represent quantities in real-world<br>contexts, explaining the meaning of 0 in each situation. | Integers   | 6.NS.5 Represent positive and negative numbers and zero in real-world contexts  | Integers               |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.6 Understand a rational number as a point on the<br>number line. Extend number line diagrams and<br>coordinate axes familiar from previous grades to<br>represent points on the line and in the plane with<br>negative number coordinates.   | Rational Numbers   | 6.NS.6 Plot rational numbers on a number line, including negative number coordinates  | Axes                   |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.6a Recognize opposite signs of numbers as<br>indicating locations on opposite sides of 0 on the number<br>line; recognize that the opposite of the opposite of a<br>number is the number itself, e.g., $-(-3) = 3$ , and that 0 is<br>its own opposite.  | Integers   | 6.NS.6a Recognize opposite signs of numbers as<br>indicating locations on opposite sides of 0 on the<br>number line; recognize that the opposite of the<br>opposite of a number is the number itself  |                        |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.6b Understand signs of numbers in ordered pairs as<br>indicating locations in quadrants of the coordinate plane;<br>recognize that when two ordered pairs differ only by<br>signs, the locations of the points are related by<br>reflections across one or both axes.  | Coordinate Plane   | 6.NS.6b Distinguish the quadrant in the coordinate<br>plane based on the signs of numbers in the ordered<br>pairs; recognize that when two ordered pairs differ<br>only by signs, the locations of the points are related by<br>reflections across one or both axes | Ordered Pairs          |

| Domain | Cluster   | Common Core Standard  | Content                      | Skills   | Academic<br>Vocabulary       |
|--------|---|---|------------------------------|--|------------------------------|
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.6c Find and position integers and other rational<br>numbers on a horizontal or vertical number line diagram;<br>find and position pairs of integers and other rational<br>numbers on a coordinate plane.   | Integers<br>Number Lines     |  | Integer<br>Rational Numbers  |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.6c Find and position integers and other rational<br>numbers on a horizontal or vertical number line diagram;<br>find and position pairs of integers and other rational<br>numbers on a coordinate plane.   | Integers<br>Coordinate Plane |  | Integers<br>Rational Numbers |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7 Understand ordering and absolute value of rational numbers.  | Rational Numbers             | 6.NS.7 Order Rational Numbers and calculate absolute value   | Absolute Value               |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7a Interpret statements of inequality as statements<br>about the relative position of two numbers on a number<br>line diagram. For example, interpret $-3 > -7$ as a<br>statement that $-3$ is located to the right of $-7$ on a<br>number line oriented from left to right. | Inequalities                 | 6.NS.7a Interpret statements of inequality as<br>statements about the relative position of two numbers<br>on a number line diagram | Inequality                   |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7b Write, interpret, and explain statements of order<br>for rational numbers in real-world contexts. For example,<br>write –3 oC > –7 oC to express the fact that –3 oC is<br>warmer than –7 oC.   | •                            | 6.NS.7b Write, interpret, and explain statements of order for rational numbers in real-world contexts                              | Rational Numbers             |

| Domain | Cluster   | Common Core Standard  | Content                            | Skills  | Academic<br>Vocabulary            |
|--------|---|---|------------------------------------|---|-----------------------------------|
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7c Understand the absolute value of a rational<br>number as its distance from 0 on the number line;<br>interpret absolute value as magnitude for a positive or<br>negative quantity in a real-world situation. For example,<br>for an account balance of –30 dollars, write  –30  = 30 to<br>describe the size of the debt in dollars. | Absolute Value                     | 6.NS.7c Recognize the absolute value of a rational number as its distance from 0 on the number line         | Absolute Value<br>Rational Number |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7c Understand the absolute value of a rational<br>number as its distance from 0 on the number line;<br>interpret absolute value as magnitude for a positive or<br>negative quantity in a real-world situation. For example,<br>for an account balance of –30 dollars, write  –30  = 30 to<br>describe the size of the debt in dollars. | Absolute Value                     | 6.NS.7c Interpret absolute value as magnitude for a positive or negative quantity in a real-world situation | Absolute Value                    |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.7d Distinguish comparisons of absolute value from<br>statements about order. For example, recognize that an<br>account balance less than –30 dollars represents a debt<br>greater than 30 dollars.   | Absolute Value                     | 6.NS.7d Distinguish comparisons of absolute value from statements about order                               | Absolute Value                    |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.8 Solve real-world and mathematical problems by<br>graphing points in all four quadrants of the coordinate<br>plane. Include use of coordinates and absolute value to<br>find distances between points with the same first<br>coordinate or the same second coordinate.  | Coordinate Plane<br>Absolute Value | 6.NS.8 Solve mathematical problems by graphing points in all four quadrants of the coordinate plane         |                                   |
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers. | 6.NS.8 Solve real-world and mathematical problems by<br>graphing points in all four quadrants of the coordinate<br>plane. Include use of coordinates and absolute value to<br>find distances between points with the same first<br>coordinate or the same second coordinate.  | Coordinate Plane<br>Absolute Value | 6.NS.8 Solve real-world problems by graphing points in all four quadrants of the coordinate plane           |                                   |

| Domain | Cluster   | Common Core Standard   | Content                            | Skills   | Academic<br>Vocabulary   |
|--------|---|--|------------------------------------|--|--|
| NS     | Apply and extend<br>previous<br>understandings of<br>numbers to the<br>system of rational<br>numbers.   | 6.NS.8 Solve real-world and mathematical problems by<br>graphing points in all four quadrants of the coordinate<br>plane. Include use of coordinates and absolute value to<br>find distances between points with the same first<br>coordinate or the same second coordinate. | Coordinate Plane<br>Absolute Value | 6.NS.8 Find distances between points with the same first coordinate or the same second coordinate using coordinates    |  |
| NS     | previous  | 6.NS.8 Solve real-world and mathematical problems by<br>graphing points in all four quadrants of the coordinate<br>plane. Include use of coordinates and absolute value to<br>find distances between points with the same first<br>coordinate or the same second coordinate. | Coordinate Plane<br>Absolute Value | 6.NS.8 Find distances between points with the same first coordinate or the same second coordinate using absolute value |  |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1 Apply and extend previous understandings of<br>addition and subtraction to add and subtract rational<br>numbers; represent addition and subtraction on a<br>horizontal or vertical number line diagram.   | Addition<br>Rational numbers       | 7.NS.1 Add rational numbers on a horizontal or vertical number line.   | Rational numbers<br>Vertical number line<br>Horizontal number line |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1 Apply and extend previous understandings of<br>addition and subtraction to add and subtract rational<br>numbers; represent addition and subtraction on a<br>horizontal or vertical number line diagram.   | Subtraction<br>Rational numbers    | 7.NS.1 Subtract rational numbers on a horizontal or vertical number line.  | Rational numbers<br>Vertical number line<br>Horizontal number line |

| Domain | Cluster   | Common Core Standard  | Content          | Skills   | Academic<br>Vocabulary |
|--------|---|---|------------------|--|------------------------|
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1a Describe situations in which opposite quantities<br>combine to make 0. For example, a hydrogen atom has 0<br>charge because its two constituents are oppositely<br>charged.   | Rational Numbers | 7.NS.1a Describe situations in which opposite quantities combine to make 0.  | Property of Opposites  |
| NS     | understandings of operations with fractions to add,   | 7.NS.1b Understand p + q as the number located a<br>distance  q  from p, in the positive or negative direction<br>depending on whether q is positive or negative. Show<br>that a number and its opposite have a sum of 0 (are<br>additive inverses). Interpret sums of rational numbers by<br>describing real-world contexts. | Rational Numbers | 7.NS.1b Explain p + q as the number located a distance<br> q  from p, in the positive or negative direction<br>depending on whether q is positive or negative. | Combine                |
| NS     | previous<br>understandings of<br>operations with<br>fractions to add,   | 7.NS.1b Understand p + q as the number located a<br>distance  q  from p, in the positive or negative direction<br>depending on whether q is positive or negative. Show<br>that a number and its opposite have a sum of 0 (are<br>additive inverses). Interpret sums of rational numbers by<br>describing real-world contexts. | Rational Numbers | 7.NS.1b Show that a number and its opposite have a sum of 0 (are additive inverses).   | Combine                |
| NS     | understandings of operations with fractions to add,   | 7.NS.1b Understand p + q as the number located a<br>distance  q  from p, in the positive or negative direction<br>depending on whether q is positive or negative. Show<br>that a number and its opposite have a sum of 0 (are<br>additive inverses). Interpret sums of rational numbers by<br>describing real-world contexts. | Rational Numbers | 7.NS.1b Interpret sums of rational numbers by describing real-world contexts.  | Combine                |

| Domain | Cluster   | Common Core Standard   | Content                            | Skills   | Academic<br>Vocabulary   |
|--------|---|--|------------------------------------|--|--|
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1c Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$ . Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.             | Subtraction<br>Rational numbers    | 7.NS.1c Explain subtraction of rational numbers as adding the additive inverse   | Additive Inverses<br>Absolute Value                                      |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1c Understand subtraction of rational numbers as<br>adding the additive inverse, $p - q = p + (-q)$ . Show that<br>the distance between two rational numbers on the<br>number line is the absolute value of their difference, and<br>apply this principle in real-world contexts. | Subtraction<br>Rational numbers    | 7.NS.1c Prove that the distance between two rational<br>numbers on the number line is the absolute value of<br>their difference. | Absolute Value   |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.1d Apply properties of operations as strategies to add and subtract rational numbers.   | Properties of<br>Operations        |  | Associative<br>Commutative<br>Additive Identity<br>Property of Opposites |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.2 Apply and extend previous understandings of<br>multiplication and division and of fractions to multiply<br>and divide rational numbers.   | Multiplication<br>Rational Numbers | 7.NS.2 Multiply rational numbers.  | Rational numbers   |

| Domain | Cluster  | Common Core Standard  | Content                            | Skills  | Academic<br>Vocabulary                           |
|--------|--|---|------------------------------------|---|--|
| NS     | •  |   | Division Rational<br>Numbers       | 7.NS.2 Divide rational numbers.   | Rational numbers                                 |
| NS     | previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and | 7.NS.2a Understand that multiplication is extended from<br>fractions to rational numbers by requiring that operations<br>continue to satisfy the properties of operations,<br>particularly the distributive property, leading to products<br>such as $(-1)(-1) = 1$ and the rules for multiplying signed<br>numbers. Interpret products of rational numbers by<br>describing real-world contexts. | Multiplication<br>Rational Numbers | 7.NS.2a Apply the properties of multiplication and<br>rules for multiplying signed numbers to rational<br>numbers.  | Distributive Property<br>Multiplicative Identify |
| NS     | previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and | 7.NS.2a Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.                   |                                    | 7.NS.2a Interpret products of rational numbers by describing real-world contexts.   | Distributive Property                            |
| NS     | previous<br>understandings of<br>operations with   | provided that the divisor is not zero, and every quotient<br>of integers (with non-zero divisor) is a rational number. If<br>p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$ .<br>Interpret quotients of rational numbers by describing real-   | Divide rational<br>numbers         | 7.NS.2b Explain that integers can be divided, provided<br>that the divisor is not zero, and every quotient of<br>integers (with non-zero divisor) is a rational number. | Rational numbers<br>Undefined quotient           |

| Domain | Cluster   | Common Core Standard  | Content                            | Skills   | Academic<br>Vocabulary                                 |
|--------|---|---|------------------------------------|--|--|
| NS     | previous<br>understandings of   | provided that the divisor is not zero, and every quotient<br>of integers (with non-zero divisor) is a rational number. If<br>p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$ .<br>Interpret quotients of rational numbers by describing real- |                                    | 7.NS.2b Interpret quotients of rational numbers by describing real-world contexts. | Rational numbers<br>Undefined quotient                 |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | multiply and divide rational numbers.   | Multiplication<br>Rational Numbers | 7.NS.2c Apply properties of operations as strategies to multiply rational numbers. | Associative<br>Commutative<br>Mulitiplicative Identity |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. |   | divide rational<br>numbers         | 7.NS.2c Apply properties of operations as strategies to divide rational numbers.   | properties of operations<br>rational numbers           |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.2d Convert a rational number to a decimal using<br>long division; know that the decimal form of a rational<br>number terminates in 0s or eventually repeats.   | rational numbers                   | 7.NS.2d Convert a rational number to a decimal using long division                 | repeating decimal                                      |

| Domain | Cluster   | Common Core Standard  | Content                  | Skills   | Academic<br>Vocabulary                   |
|--------|---|---|--------------------------|--|--|
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.2d Convert a rational number to a decimal using<br>long division; know that the decimal form of a rational<br>number terminates in 0s or eventually repeats. | rational numbers         | 7.NS.2d Identify that the decimal form of a rational number terminates in 0s or eventually repeats.    | terminating decimal<br>repeating decimal |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.  | rational numbers         | 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers. | Rational Numbers                         |
| NS     | Apply and extend<br>previous<br>understandings of<br>operations with<br>fractions to add,<br>subtract, multiply, and<br>divide rational<br>numbers. | 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.  | rational numbers         | 7.NS.3 Extend the rules for manipulating fractions to complex fractions                                | Complex fraction                         |
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions.  | 6.EE.1 Write and evaluate numerical expressions involving whole-number exponents  | Expressions<br>Exponents | 6.EE.1 Write and evaluate numerical expressions involving whole-number exponents                       | Numerical Expression<br>Base<br>Power    |

| Domain | Cluster  | Common Core Standard   | Content     | Skills  | Academic<br>Vocabulary                 |
|--------|--|--|-------------|---|--|
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.2 Write and read expressions in which letters stand for numbers   | Expressions | 6.EE.2 Write and read expressions in which letters stand for numbers                                | Expression<br>Variable                 |
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.2 Write and read expressions in which letters stand for numbers   | Expressions | 6.EE.2 Evaluate expressions in which letters stand for numbers                                      | Expression<br>Variable<br>Substitution |
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.2a Write expressions that record operations with<br>numbers and with letters standing for numbers. For<br>example, express the calculation "Subtract y from 5" as 5<br>– y.   | Expressions | 6.EE.2a Write expressions that record operations with numbers and with letters standing for numbers | Expression<br>Variable                 |
| EE     | previous<br>understandings of  | <ul> <li>6.EE.2b 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. For example, describe the expression 2 (8 + 7) as a product of two factors; view (8 + 7) as both a single entity and a sum of two terms.</li> </ul> | Expressions | 6.EE.2b Identify parts of an expression using mathematical terms                                    | Coefficient<br>Variable                |
| EE     | -  | 6.EE.2b Identify parts of an expression using<br>mathematical terms (sum, term, product, factor,<br>quotient, coefficient); view one or more parts of an<br>expression as a single entity. For example, describe the<br>expression 2 (8 + 7) as a product of two factors; view (8 +<br>7) as both a single entity and a sum of two terms.      | Expressions | 6.EE.2b Identify one or more parts of an expression as a single entity                              | Expression<br>Variable                 |

| Domain | Cluster  | Common Core Standard  | Content     | Skills  | Academic<br>Vocabulary |
|--------|--|---|-------------|---|------------------------|
| EE     | previous<br>understandings of<br>arithmetic to algebraic                                     | 6.EE.2c Evaluate expressions at specific values of their<br>variables. Include expressions that arise from formulas<br>used in real-world problems. Perform arithmetic<br>operations, including those involving whole-number<br>exponents, in the conventional order when there are no<br>parentheses to specify a particular order (Order of<br>Operations). For example, use the formulas V = s3 and A<br>= 6 s2 to find the volume and surface area of a cube with<br>sides of length s = 1/2. | Expressions | 6.EE.2c Evaluate expressions at specific values of their variables  | Expression<br>Variable |
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.2c Evaluate expressions at specific values of their<br>variables. Include expressions that arise from formulas<br>used in real-world problems. Perform arithmetic<br>operations, including those involving whole-number<br>exponents, in the conventional order when there are no<br>parentheses to specify a particular order (Order of<br>Operations). For example, use the formulas V = s3 and A<br>= 6 s2 to find the volume and surface area of a cube with<br>sides of length s = 1/2. | Expressions | 6.EE.2c Evaluate expressions that arise from formulas used in real-world problems   | Expression<br>Variable |
| EE     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.2c Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic  |             | 6.EE.2c Perform arithmetic operations, including those<br>involving whole-number exponents, in the<br>conventional order when there are no parentheses to<br>specify a particular order | Expression<br>Variable |

| Domain | Cluster  | Common Core Standard   | Content  | Skills   | Academic<br>Vocabulary |
|--------|--|--|--|--|------------------------|
| EE     | arithmetic to algebraic  | 6.EE.3 Apply the properties of operations to generate<br>equivalent expressions. For example, apply the<br>distributive property to the expression 3 $(2 + x)$ to<br>produce the equivalent expression 6 + 3x; apply the<br>distributive property to the expression 24x + 18y to<br>produce the equivalent expression 6 $(4x + 3y)$ ; apply<br>properties of operations to y + y + y to produce the<br>equivalent expression 3y. | Distributive<br>Property<br>Simplifying<br>Expressions | 6.EE.3 Apply the properties of operations to generate equivalent expressions | Distributive Property  |
| EE     | -  | 6.EE.3 Apply the properties of operations to generate<br>equivalent expressions. For example, apply the<br>distributive property to the expression 3 (2 + x) to  | Simplifying<br>Expressions                             | 6.EE.3 Apply the properties of operations to generate equivalent expressions | Expression<br>Variable |
| ĒĒ     | previous<br>understandings of  | 6.EE.4 Identify when two expressions are equivalent (i.e.,<br>when the two expressions name the same number<br>regardless of which value is substituted into them). For  | Expressions  | 6.EE.4 Identify when two expressions are equivalent                          |                        |
| ΞĒ     | Apply and extend<br>previous<br>understandings of<br>arithmetic to algebraic<br>expressions. | 6.EE.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for. Reason about and solve one-variable equations and inequalities.  | Inequalities   | 6.EE.4 Solve one-variable equations and inequalities                         |                        |

| Domain | Cluster               | Common Core Standard  | Content   | Skills  | Academic<br>Vocabulary |
|--------|-----------------------|---|-----------|---|------------------------|
| EE     | ,                     | 6.EE.9 Use variables to represent two quantities in a real- | Equations |   | Independent and        |
|        | quantitative          | world problem that change in relationship to one            |           | two quantities in a real-world problem that change in | Dependent Variables    |
|        |                       | another; write an equation to express one quantity,         |           | relation to one another                               |                        |
|        |                       | thought of as the dependent variable, in terms of the       |           |   |                        |
|        | independent           | other quantity, thought of as the independent variable.     |           |   |                        |
|        | variables.            | Analyze the relationship between the dependent and          |           |   |                        |
|        |                       | independent variables using graphs and tables, and relate   |           |   |                        |
|        |                       | these to the equation. For example, in a problem            |           |   |                        |
|        |                       | involving motion at constant speed, list and graph          |           |   |                        |
|        |                       | ordered pairs of distances and times, and write the         |           |   |                        |
|        |                       | equation d = 65t to represent the relationship between      |           |   |                        |
|        |                       | distance and time.  |           |   |                        |
| EE     | Represent and analyze | 6.EE.9 Use variables to represent two quantities in a real- | Equations | 6.EE.9 Analyze the relationship between dependent     | Independent and        |
|        | quantitative          | world problem that change in relationship to one            | Graphing  | and independent variables using graphs and tables,    | Dependent Variables    |
|        | relationships between | another; write an equation to express one quantity,         |           | and relate these to an equation                       |                        |
|        | dependent and         | thought of as the dependent variable, in terms of the       |           |   |                        |
|        | independent           | other quantity, thought of as the independent variable.     |           |   |                        |
|        | variables.            | Analyze the relationship between the dependent and          |           |   |                        |
|        |                       | independent variables using graphs and tables, and relate   |           |   |                        |
|        |                       | these to the equation. For example, in a problem            |           |   |                        |
|        |                       | involving motion at constant speed, list and graph          |           |   |                        |
|        |                       | ordered pairs of distances and times, and write the         |           |   |                        |
|        |                       | equation d = 65t to represent the relationship between      |           |   |                        |
|        |                       | distance and time.  |           |   |                        |

| Domain | Cluster   | Common Core Standard  | Content   | Skills  | Academic<br>Vocabulary             |
|--------|---|---|---|---|------------------------------------|
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation. | Algebraic<br>expressions<br>Algebraic equations<br>Numerical<br>expressions<br>Numerical<br>equations | 7.EE.3 Evaluate the reasonableness of answers using mental computation and estimation strategies. | Expression<br>Equation             |
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.4 Use variables to represent quantities in a real-<br>world or mathematical problem, and construct simple<br>equations and inequalities to solve problems by<br>reasoning about the quantities.  | Algebraic<br>expressions  | 7.EE.4 Choose variables to represent quantities in a real-world or mathematical problem.          | Variable<br>Equation<br>Inequality |
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.4 Use variables to represent quantities in a real-<br>world or mathematical problem, and construct simple<br>equations and inequalities to solve problems by<br>reasoning about the quantities.  | Algebraic equations   | 7.EE.4 Construct simple equations to solve problems by reasoning about the quantities.            | Variable<br>Equation<br>Inequality |

| Domain | Cluster   | Common Core Standard   | Content                   | Skills  | Academic<br>Vocabulary                    |
|--------|---|--|---------------------------|---|---|
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.4 Use variables to represent quantities in a real-<br>world or mathematical problem, and construct simple<br>equations and inequalities to solve problems by<br>reasoning about the quantities.   | Algebraic<br>inequalities |   | Variable<br>Equation<br>Inequality        |
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.4a Solve word problems leading to equations of the<br>form $px + q = r$ and $p(x + q) = r$ , where p, q, and r are<br>specific rational numbers. Solve equations of these forms<br>fluently. Compare an algebraic solution to an arithmetic<br>solution, identifying the sequence of the operations used<br>in each approach. For example, the perimeter of a<br>rectangle is 54 cm. Its length is 6 cm. What is its width? |                           | 7.EE.4a Solve word problems leading to equations of<br>the form $px + q = r$ and $p(x + q) = r$ , where p, q, and r<br>are specific rational numbers. Solve equations of these<br>forms fluently. | Two dimensional shapes                    |
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. | 7.EE.4a Solve word problems leading to equations of the<br>form $px + q = r$ and $p(x + q) = r$ , where p, q, and r are<br>specific rational numbers. Solve equations of these forms<br>fluently. Compare an algebraic solution to an arithmetic<br>solution, identifying the sequence of the operations used<br>in each approach. For example, the perimeter of a<br>rectangle is 54 cm. Its length is 6 cm. What is its width? | •                         | 7.EE.4a Identify the sequence of the operations used<br>in an algebriac solution and in arithmetic solution.  | Three dimensional shap                    |
| EE     | Solve real-life and<br>mathematical<br>problems using<br>numerical and<br>algebraic expressions<br>and equations. |  | Numerical                 |   | algebraic solution<br>arithmetic solution |

| Domain | Cluster   | Common Core Standard  | Content                       | Skills   | Academic<br>Vocabulary               |
|--------|---|---|-------------------------------|--|--------------------------------------|
| EE     | problems using<br>numerical and<br>algebraic expressions  | the form $px + q > r$ or $px + q < r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Graph the solution set of the  | Numerical<br>inequalities     | 7.EE.4b Solve word problems leading to inequalities of<br>the form px + q > r or px + q < r, where p, q, and r are<br>specific rational numbers. | inequality<br>rational numbers       |
| EE     | mathematical<br>problems using<br>numerical and<br>algebraic expressions                                  | 7.EE.4b Solve word problems leading to inequalities of<br>the form px + q > r or px + q < r, where p, q, and r are<br>specific rational numbers. Graph the solution set of the<br>inequality and interpret it in the context of the problem.<br>For example: As a salesperson, you are paid \$50 per week<br>plus \$3 per sale. This week you want your pay to be at<br>least \$100. Write an inequality for the number of sales<br>you need to make, and describe the solutions. |                               | 7.EE.4b Graph the solution set of the inequality.  | number line<br>inequality            |
| EE     | problems using<br>numerical and<br>algebraic expressions<br>and equations.                                | 7.EE.4b Solve word problems leading to inequalities of<br>the form px + q > r or px + q < r, where p, q, and r are<br>specific rational numbers. Graph the solution set of the<br>inequality and interpret it in the context of the problem.<br>For example: As a salesperson, you are paid \$50 per week<br>plus \$3 per sale. This week you want your pay to be at<br>least \$100. Write an inequality for the number of sales<br>you need to make, and describe the solutions. |                               | 7.EE.4b Interpret it in the context of the problem.  | number line<br>inequality            |
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.   | Proportional<br>Relationships | 7.G.1 Compute actual lengths and areas from a scale drawing.   | scale<br>Constant of Proportionality |

| Domain | Cluster   | Common Core Standard  | Content                       | Skills  | Academic<br>Vocabulary               |
|--------|---|---|-------------------------------|---|--------------------------------------|
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.   | Proportional<br>Relationships | 7.G.1 Solve problems involving scale drawings of geometric figures.             | scale<br>Constant of Proportionality |
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.   | Proportional<br>Relationships | 7.G.1 Reproduce a scale drawing at a different scale.                           | scale<br>Constant of Proportionality |
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.2 Draw (freehand, with ruler and protractor, and with<br>technology) geometric shapes with given conditions.<br>Focus on constructing triangles from three measures of<br>angles or sides, noticing when the conditions determine a<br>unique triangle, more than one triangle, or no triangle. | Two dimensional<br>shapes     | 7.G.2 Draw, with a ruler, geometric shapes with given conditions.               | Triangles                            |
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.2 Draw (freehand, with ruler and protractor, and with<br>technology) geometric shapes with given conditions.<br>Focus on constructing triangles from three measures of<br>angles or sides, noticing when the conditions determine a<br>unique triangle, more than one triangle, or no triangle. | Two dimensional<br>shapes     | 7.G.2 Draw, with a protractor, geometric shapes with given conditions.          | Triangles                            |
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them. | 7.G.2 Draw (freehand, with ruler and protractor, and with<br>technology) geometric shapes with given conditions.<br>Focus on constructing triangles from three measures of<br>angles or sides, noticing when the conditions determine a<br>unique triangle, more than one triangle, or no triangle. | Two dimensional<br>shapes     | 7.G.2 Draw, freehand or with technology geometric shapes with given conditions. | Triangles                            |

| Domain | Cluster   | Common Core Standard  | Content                   | Skills   | Academic<br>Vocabulary   |
|--------|---|---|---------------------------|--|--|
| G      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them.         | 7.G.2 Draw (freehand, with ruler and protractor, and with<br>technology) geometric shapes with given conditions.<br>Focus on constructing triangles from three measures of<br>angles or sides, noticing when the conditions determine a<br>unique triangle, more than one triangle, or no triangle. | shapes                    | 7.G.2 Determine if measures of three angles or sides create a unique triangle, more than one triangle, or no triangle. | Triangles  |
| 3      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them.         | 7.G.2 Draw (freehand, with ruler and protractor, and with<br>technology) geometric shapes with given conditions.<br>Focus on constructing triangles from three measures of<br>angles or sides, noticing when the conditions determine a<br>unique triangle, more than one triangle, or no triangle. | shapes                    | 7.G.2 Construct triangles from three measures of angles or sides.  | Triangles  |
| 5      | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them.         | 7.G.3 Describe the two-dimensional figures that result<br>from slicing three-dimensional figures, as in plane<br>sections of right rectangular prisms and right rectangular<br>pyramids.  | Three dimensional shapes  |  | Two dimensional shapes<br>Three dimensional shapes<br>Polygons<br>Slicing<br>Cross Section |
|        | Draw construct, and<br>describe geometrical<br>figures and describe<br>the relationships<br>between them.         | 7.G.3 Describe the two-dimensional figures that result<br>from slicing three-dimensional figures, as in plane<br>sections of right rectangular prisms and right rectangular<br>pyramids.  | Two dimensional<br>shapes |  | Two dimensional shapes<br>Three dimensional shapes<br>Polygons<br>Slicing<br>Cross Section |
| 5      | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.4 Know the formulas for the area and circumference<br>of a circle and use them to solve problems; give an<br>informal derivation of the relationship between the<br>circumference and area of a circle.   | Two dimensional<br>shapes |  | Circumference<br>Area  |

| Domain | Cluster   | Common Core Standard  | Content                   | Skills  | Academic<br>Vocabulary  |
|--------|---|---|---------------------------|---|---|
| G      | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.4 Know the formulas for the area and circumference<br>of a circle and use them to solve problems; give an<br>informal derivation of the relationship between the<br>circumference and area of a circle.       | Two dimensional<br>shapes |   | Circumference<br>Area   |
|        | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.4 Know the formulas for the area and circumference<br>of a circle and use them to solve problems; give an<br>informal derivation of the relationship between the<br>circumference and area of a circle.       | Two dimensional<br>shapes | 7.G.4 Interpret the relationship between the circumference and area of a circle.                    | Circumference<br>Area   |
|        | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.5 Use facts about supplementary, complementary,<br>vertical, and adjacent angles in a multi-step problem to<br>write and solve simple equations for an unknown angle in<br>a figure.                          |                           | unknown angle in a figure using facts about<br>supplementary, complementary, vertical, and adjacent | Supplementary<br>Complementary<br>Vertical angles<br>Adjacent angles      |
| 5      | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.6 Solve real-world and mathematical problems<br>involving area, volume and surface area of two- and<br>three-dimensional objects composed of triangles,<br>quadrilaterals, polygons, cubes, and right prisms. |                           |   | Two Dimensional Shapes<br>Triangles<br>Quadrilaterals<br>Polygons<br>Area |
| 3      | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.6 Solve real-world and mathematical problems<br>involving area, volume and surface area of two- and<br>three-dimensional objects composed of triangles,<br>quadrilaterals, polygons, cubes, and right prisms. | Volume                    | composed of cubes and right prisms.   | Three Dimensional Shapes<br>Cubes<br>Right prism<br>Volume                |

| Domain | Cluster   | Common Core Standard   | Content                | Skills   | Academic<br>Vocabulary  |
|--------|---|--|------------------------|--|---|
| G      | Solve real-life and<br>mathematical<br>problems involving<br>angle measure, area,<br>surface area, and<br>volume. | 7.G.6 Solve real-world and mathematical problems<br>involving area, volume and surface area of two- and<br>three-dimensional objects composed of triangles,<br>quadrilaterals, polygons, cubes, and right prisms.  | Surface Area           | 7.G.6 Solve real-world and mathematical problems<br>involving surface area of three-dimensional objects<br>composed of cubes and right prisms.                           | Three Dimensional Shapes<br>Two Dimensional Shapes<br>Cubes<br>Right prism<br>Surface Area<br>Net |
| SP     | Summarize and describe distributions.   | 6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.   | Statistics<br>Graphing | 6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots  | Dot Plot<br>Box Plot<br>Histogram<br>Number Line  |
| SP     | Summarize and describe distributions.   | 6.SP.5 Summarize numerical data sets in relation to their context, such as by:   | Statistics             | 6.SP.5 Summarize numerical data sets in relation to their context  |   |
| SP     | Summarize and describe distributions.   | 6.SP.5a Reporting the number of observations.  | Statistics             | 6.SP.5a Summarize numerical data sets by reporting the number of observations  |   |
| SP     | Summarize and describe distributions.   | 6.SP.5b Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.  | Statistics             | 6.SP.5b Summarize numerical data sets by describing<br>the nature of the attribute under investigation,<br>including how it was measured and its units of<br>measurement |   |
| SP     | Summarize and describe distributions.   | 6.SP.5c Giving quantitative measures of center (median<br>and/or mean) and variability (interquartile range and/or<br>mean absolute deviation), as well as describing any<br>overall pattern and any striking deviations from the<br>overall pattern with reference to the context in which the<br>data were gathered. | Statistics             | 6.SP.5c Summarize numerical data sets by giving quantitative measures of center, such as median and/or mean  | Mean<br>Median  |
| SP     | Summarize and describe distributions.   | 6.SP.5c Giving quantitative measures of center (median<br>and/or mean) and variability (interquartile range and/or<br>mean absolute deviation), as well as describing any<br>overall pattern and any striking deviations from the<br>overall pattern with reference to the context in which the<br>data were gathered. | Statistics             | 6.SP.5c Summarize numerical data sets by giving variability, such as interquartile range and/or mean absolute deviation  | Interquartile Range<br>Mean Absolute Deviation  |

| Domain | Cluster                 | Common Core Standard                                       | Content    | Skills  | Academic<br>Vocabulary |
|--------|-------------------------|--|------------|---|------------------------|
| SP     | Summarize and           | 6.SP.5c Giving quantitative measures of center (median     | Statistics | 6.SP.5c Summarize numerical data sets by describing   | Outliers               |
|        | describe distributions. | and/or mean) and variability (interquartile range and/or   |            | any overall pattern and any outliers from the overall |                        |
|        |                         | mean absolute deviation), as well as describing any        |            | pattern   |                        |
|        |                         | overall pattern and any striking deviations from the       |            |   |                        |
|        |                         | overall pattern with reference to the context in which the |            |   |                        |
|        |                         | data were gathered.  |            |   |                        |
| SP     | Summarize and           | 6.SP.5d Relating the choice of measures of center and      | Statistics | 6.SP.5d Summarize numerical data sets by relating the | Range                  |
|        | describe distributions. | variability to the shape of the data distribution and the  |            | choice of measures of center and variability to the   |                        |
|        |                         | context in which the data were gathered.                   |            | shape of the data distribution                        |                        |