PSUSD 7th Grade Math 2018-19 Matrix

| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| From:08/13/2018 <br> To:09/18/2018 <br> Assessment:09/18/2018 <br> Reflection: 09/19/2018 | From:09/19/2018 <br> To:10/30/2018 <br> Assessment:10/30/2018 <br> Reflection: 10/31/2018 | From:10/31/2018 <br> To:12/18/2018 <br> Assessment:12/18/2018 <br> Reflection: 12/19/2018 | From:01/14/2019 <br> To:02/26/2019 <br> Assessment:02/26/2019 <br> Reflection: 02/27/2019 | From:02/27/2019 <br> To:04/09/2019 <br> Assessment:04/09/2019 <br> Reflection: 04/10/2019 | From: To: Assessment: Reflection: |
| 1 CC.7.RP. 1 Analyze proportional relationships and use them to solve real-world and mathematical problems. 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. | CC.7.RP. 3 Analyze proportional relationships and use them to solve real-world and mathematical problems. Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. | CC.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. | CC.7.EE. 1 Use properties of operations to generate equivalent expressions. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. | CC.7.G. 1 Draw, construct, and describe geometrical figures and describe the relationships between them. 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. |  |
| 2 CC.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. | CC.7.NS.1a Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged. | CC.7.NS.2b Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If $p$ and $q$ are integers then -(p/q) $=(-p) / q=p /(-q)$. Interpret quotients of rational numbers by describing real-world contexts. | CC.7.EE. 2 Use properties of operations to generate equivalent expressions. Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. For example, a + $0.05 a=1.05 a$ means that "increase by $5 \%$ " is the same as "multiply by 1.05." | CC.7.G. 2 Draw, construct, and describe geometrical figures and describe the relationships between them. Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle. |  |
| 3 CC.7.RP.2b Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. | CC.7.NS.1b Understand $p+q$ as the number located a distance \|q| from $p$, in the positive or negative direction depending on whether $q$ is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts. | CC.7.NS.2c Apply properties of operations as strategies to multiply and divide rational numbers. | CC.7.EE. 3 Solve real-life and mathematical problems using numerical and algebraic expressions and equations. Solve multistep 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 as strategies 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 | CC.7.G. 4 Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle. |  |



