## Cameron Middle School <br> Common Core State Standards <br> Sixth Grade Math Scope \& Sequence - at a Glance

| Common Core State Standards: Curriculum Map |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Semester |  |  |  |  |  | $2^{\text {nd }}$ Semester |  |  |  |  |  |  |
| Uni |  | Unit 2 |  |  | Unit 3 | Unit 3 |  | Unit 4 |  | Unit 5 |  | Review |
| Ch 1 | Ch 2 | Ch 3 | Ch 4 | Ch 5 | Ch 6 | Ch 7 | Ch 8 | Ch 9 | Ch 10 | Ch 11 | Ch 12 | Review |
| 15 days | 15 days | 15 days | 10 days | 20 days | 10 days | 15 days | 15 days | 10 days | 10 days | 15 days | 10days | 15 days |
| Rate, Ratio | Fractions, <br> Decimals <br> and <br> Percent | Compute with MultiDigit Numbers | Divide Fractions | Integers (negatives), Rational <br> Numbers and the Coordinate Plane | Expressions | Equations | Relationships \& Inequalities | Area | Volume and Surface Area | Statistical <br> Measures | Statistical Displays | Review |
| $\begin{aligned} & \text { 6.RP.A.3d } \\ & \text { 6.RP.A.3c } \\ & \text { 6.RP.A.3b } \\ & \text { 6.RP.A.3a } \\ & \text { 6.RP.A. } 3 \\ & \text { 6.RP.A.2 } \\ & \text { 6.RP.A. } \end{aligned}$ | $\begin{aligned} & \hline \text { 6.NS.A. } 1 \\ & \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ | $\begin{aligned} & \hline \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ | 6.NS.A. 1 | 6.NS.C. 5 <br> 6.NS.C. 6 <br> 6.NS.C.6a <br> 6.NS.C.6b <br> 6.NS.C.6c <br> 6.NS.C. 7 <br> 6.NS.C.7a <br> 6.NS.C.7b <br> 6.NS.C.7c <br> 6.NS.C.7d <br> 6.NS.C. 8 <br> 6.G.A. 3 | 6.EE.A. 1 6.EE.A. 2 6.EE.A.2a 6.EE.A.2b 6.EE.A.2c 6.EE.A. 6.EE.A. 4 | 6.EE.B.5 6.EE.B. 6 6.EE.B. 7 | 6.EE.C. 9 6.EE.B. 8 | 6.G.A. 1 | $\begin{aligned} & \hline \text { 6.G.A. } 2 \\ & \text { 6.G.A. } \end{aligned}$ | $\begin{aligned} & \hline \text { 6.SP.A. } 1 \\ & \text { 6.SP.A. } 2 \\ & \text { 6.SP.A. } 3 \end{aligned}$ | $\begin{aligned} & \text { 6.SP.B.5 } \\ & \text { 6.SP.B. } 4 \end{aligned}$ |  |

All units will include the Mathematical Practices and indicate skills to maintain.

| Mathematical Practices |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| MP 1:Make sense of problems and <br> persevere in solving them. <br> MP 5: Use appropriate tools strategically MP2: Reason abstractly and quantitatively | MP 3: Construct viable arguments and <br> critique the reasoning of others. | MP 4: Model with mathematics. |  |  |  |  |  |



# Cameron Middle School <br> Common Core State Standards <br> Sixth Grade - $\mathbf{1 s}^{\text {st }}$ Semester 

Common Core State Standards: Curriculum Map

| Common Core State Standards: Curriculum Map |  |  |  |
| :---: | :---: | :---: | :---: |
| for Mathematical Practice |  |  |  |
| 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. <br> 3 Construct viable arguments and critique the reasoning of others. <br> 4 Model with mathematics. |  | 5 Use appropriate tools strategically. 6 Attend to precision. <br> 7 Look for and make use of structure <br> 8 Look for and express regularity in repeated reasoning |  |
| $1^{1{ }^{\text {a }} \text { Semester }}$ |  |  |  |
|  | Unit 2 |  |  |
| Unit 1 |  |  |  |
| Rate, Ratio, Fractions, Decimals and Percents | Compute with Multi-Digit Numbers, Multiply \& Divide Fractions Multiply \& Divide Fractions | Integers (negatives), Rational Numbers and the Coordinate Plane | Expressions and Equations |
|  |  |  |  |


|  |  | 6.NS.C. 7 Understand ordering and absolute value of rational numbers. 6.NS.C.7a Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. <br> 6.NS.C.7b Write, interpret, and explain statements of order for rational numbers in real-world contexts. <br> 6.NS.C.7c 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. <br> 6.NS.C.7d Distinguish comparisons of absolute value from statements about order. 6.NS.C. 8 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. Solve real-world and mathematical problems involving area, surface area, and volume. <br> 6.G.A. 3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. |  |
| :---: | :---: | :---: | :---: |
| Incorporated Standards |  |  |  |
| $\begin{aligned} & \text { 6.NS.A. } 1 \\ & \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ | $\begin{aligned} & \text { 6.NS.A.1 } \\ & \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ | $\begin{aligned} & \text { 6.NS.A. } 1 \\ & \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ | $\begin{aligned} & \text { 6.NS.A. } 1 \\ & \text { 6.NS.B. } 2 \\ & \text { 6.NS.B. } 3 \\ & \text { 6.NS.B. } 4 \end{aligned}$ |

# Cameron Middle School Common Core State Standards <br> Sixth Grade - $\mathbf{2}^{\text {nd }}$ Semester 

## Common Core State Standards: Curriculum Map

Standards for Mathematical Practice

1 Make sense of problems and persevere in solving them.
2 Reason abstractly and quantitatively.
3 Construct viable arguments and critique the reasoning of others.
4 Model with mathematics.

5 Use appropriate tools strategically.
6 Attend to precision.
7 Look for and make use of structure.
8 Look for and express regularity in repeated reasoning.
$2^{\text {nd }}$ Semester

| Standards Addressed |  |  |  |
| :---: | :---: | :---: | :---: |
| Unit 3 | Unit 4 | Unit 5 |  |
| Equations, Functions and Inequalities | Area, Volume and Surface Area | Statistical Measures and Statistical Displays | Test Review |
| Reason about and solve one-variable equations and inequalities. <br> 6.EE.B. 5 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. <br> 6.EE.B. 6 Use variables to represent numbers and write expressions when solving a realworld 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. 6.EE.B. 7 Solve real-world and mathematical problems by writing and solving equations of the form $x+p=q$ and $p x=q$ for cases in which $\mathrm{p}, \mathrm{q}$ and x are all nonnegative rational numbers. <br> 6.EE.B. 8 Write an inequality of the form $x>c$ or $x<c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x>c$ or $x<c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams. Represent and analyze quantitative relationships between dependent and independent variables. <br> 6.EE.C. 9 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, | Solve real-world and mathematical problems involving area, surface area, and volume. <br> 6.G.A. 1 Find 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. <br> 6.G.A. 2 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 $V=l w h$ and $V=b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. <br> 6.G.A. 4 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. | Develop understanding of statistical variability. <br> 6.SP.A. 1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. <br> 6.SP.A. 2 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. <br> 6.SP.A. 3 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. <br> Summarize and describe distributions. <br> 6.SP.B. 4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots. <br> 6.SP.B. 5 Summarize numerical data sets in relation to their context, such as by: <br> a. Reporting the number of observations. <br> b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. <br> c. 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 was gathered. <br> d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data was gathered. | ALL |



