

Carderock Springs Elementary School Math - Grade 7

Student Name: _____ Teacher: _____

School Year: _____

Recording Codes:

4 = Complete understanding – Students have been taught the material and have consistently demonstrated thorough understanding and application.

3 = General understanding – Students have been taught the material and have usually demonstrated understanding and application.

2 = Developing understanding – Students have been taught the material and show some understanding but are not yet able to consistently apply these skills.

1 = Minimal understanding – Students have been exposed to the material but there is minimal understanding.

Math Grade 6 Unit 2	Q1	Q2	Q3	Q4
• Compares, converts, and estimates units of measure of length, time, weight, mass, capacity, and volume within the same measurement system.				
• Uses estimation and mental math to solve problems with fractions, decimals, and percents, explaining the reasoning involved.				
• Adds, subtracts, multiplies, and divides with decimals and fractions, expressing answers in simplest form.				
• Determines equivalent ratios, decimals, and percents.				
• Compares, orders, and describes rational numbers in equivalent forms.				
Math Grade 6 Unit 2 Acceleration				
• Demonstrates an understanding of precision, error, and tolerance in measurement.				
• Models and explains the addition, subtraction, multiplication, and division of integers.				
• Determines the absolute value of rational numbers.				
• Writes, solves, and applies ratios, proportions, and percents.				
• Uses ratios and proportions to create scale drawings and models.				
Math Grade 7 Unit 1				
• Organizes and displays data using a variety of displays, including box and whisker plots, scatter plots, and back-to-back stem and leaf plots.				
• Analyzes and interprets data in a variety of displays, including box and whisker plots, scatter plots, and back-to-back stem and leaf plots.				
• Uses the measures of central tendency (mean, median, mode) to compare two sets of data.				
• Evaluates the validity of claims based on analysis of data.				
Math Grade 7 Unit 2				
• Recognizes and appropriately uses exponential, scientific, and calculator notation.				
• Models and explains the addition, subtraction, multiplication, and division of integers.				
• Simplifies expressions, using the order of operations, on expressions involving the four operations, exponents, and parentheses.				
• Models, identifies, and solves 2-step linear equations and inequalities using concrete and informal methods.				

Math Grade 7 Unit 3	Q1	Q2	Q3	Q4
<ul style="list-style-type: none"> • Defines and identifies interior, exterior, alternate exterior, alternate interior, and corresponding angles that are formed by two lines cut by a transversal. 				
<ul style="list-style-type: none"> • Uses properties of vertical, complementary, and supplementary angles to determine the measure of other angles. 				
<ul style="list-style-type: none"> • Uses a compass and straightedge to construct basic elements of geometric figures including angles, segments, bisectors, and perpendicular lines. 				
<ul style="list-style-type: none"> • Identifies parallel, perpendicular, intersecting, and skew lines and applies properties of parallelism and perpendicularity to problem situations. 				
Math Grade 7 Unit 4				
<ul style="list-style-type: none"> • Writes, solves, and applies ratios, proportions, and percents. 				
<ul style="list-style-type: none"> • Uses ratios and proportions to create scale drawings and models. 				
<ul style="list-style-type: none"> • Uses strategies to solve problems involving ratios, proportions, and percents. 				
<ul style="list-style-type: none"> • Draws circle graphs using ratios, proportions, and percents. 				
Math Grade 7 Unit 5				
<ul style="list-style-type: none"> • Describes, extends, analyzes, and represents a wide variety of patterns to investigate functional relationships and solve problems. 				
<ul style="list-style-type: none"> • Determines whether functions are linear or nonlinear when given graphic examples. 				
<ul style="list-style-type: none"> • Uses coordinate graphs to interpret patterns and relationships. 				
<ul style="list-style-type: none"> • Identifies, describes the effect, and performs combinations of transformations on figures in the coordinate plane. 				
Math Grade 7 Unit 6				
<ul style="list-style-type: none"> • Demonstrates an understanding of precision, error, and tolerance in measurement. 				
<ul style="list-style-type: none"> • Uses models to find and derive a formula for surface area and volume of prisms and cylinders. 				
<ul style="list-style-type: none"> • Determines relationships between length and area and describes how a change in one affects the other. 				