

## Carderock Springs Elementary School Math - Grade 6

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.

<b>Math Grade 6 Unit 1</b>	Q1	Q2	Q3	Q4
• Conducts and uses the results of a simple statistical investigation to answer a question.				
• Interprets, organizes, and displays data using various formats, including frequency tables and circle graphs.				
• Selects and justifies mean, median, or mode of a data set as the best representation of a typical value of a data set.				
<b>Math Grade 6 Unit 1 Acceleration</b>				
• Organizes and displays data using a variety of displays, including box and whisker plots, scatter plots, and back-to-back stem and leaf plots.				
• Draws circle graphs using ratios, proportions, and percents.				
• Evaluates the validity of claims based on analysis of data.				
<b>Math Grade 6 Unit 2</b>				
• Compares, converts, and estimates units of measure of length, time, weight, mass, capacity, and volume within the same measurement system.				
• Adds, subtracts, multiplies, and divides with decimals and fractions, expressing answers in simplest form.				
• Determines equivalent ratios, decimals, and percents.				
<b>Math Grade 6 Unit 2 Acceleration</b>				
• Demonstrates an understanding of precision, error, and tolerance in measurement.				
• Models and explains the addition, subtraction, multiplication, and division of integers.				
• Writes, solves, and applies ratios, proportions, and percents.				
<b>Math Grade 6 Unit 3</b>	Q1	Q2	Q3	Q4
• Draws circles, angles, triangles, and quadrilaterals based on given measurements using a variety of tools and methods.				
• Develops and uses formulas, using related formulas and models, to determine areas of polygons such as triangles, parallelograms, trapezoids, and circles.				
• Determines the relationship between the diameter and the circumference of a circle.				
• Locates, gives coordinates of, and graphs plane figures that are the results of reflections, translations, and rotations in all quadrants of the coordinate plane.				

<b>Math Grade 6 Unit 3 Acceleration</b>				
<ul style="list-style-type: none"> <li>Defines and identifies interior, exterior, alternate exterior, alternate interior, and corresponding angles that are formed by two lines cut by a transversal.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses a compass and straightedge to construct basic elements of geometric figures including angles, segments, bisectors, and perpendicular lines.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses models to find and derive a formula for surface area and volume of prisms and cylinders.</li> </ul>				
<ul style="list-style-type: none"> <li>Determines relationships between length and area and describes how a change in one affects the other.</li> </ul>				
<b>Math Grade 6 Unit 4</b>	Q1	Q2	Q3	Q4
<ul style="list-style-type: none"> <li>Reads, writes, and represents numbers using exponents.</li> </ul>				
<ul style="list-style-type: none"> <li>Evaluates simple algebraic expressions and simple formulas, including area, perimeter, and distance.</li> </ul>				
<ul style="list-style-type: none"> <li>Recognizes and uses equality properties to solve for an unknown value in an equation.</li> </ul>				
<ul style="list-style-type: none"> <li>Generates and graphs a set of ordered pairs using a given rule.</li> </ul>				
<b>Math Grade 6 Unit 4 Acceleration</b>				
<ul style="list-style-type: none"> <li>Describes, extends, analyzes, and represents a wide variety of patterns to investigate functional relationships and solve problems.</li> </ul>				
<ul style="list-style-type: none"> <li>Simplifies expressions, using the order of operations, on expressions involving the four operations, exponents, and parentheses.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses variables and appropriate operations to write expressions.</li> </ul>				
<b>Math Grade 6 Unit 5</b>				
<ul style="list-style-type: none"> <li>Finds all possible outcomes of simple experiments using such methods as lists, tree diagrams, area models, and organized lists.</li> </ul>				
<ul style="list-style-type: none"> <li>Represents probabilities as ratios, decimals between 0 and 1, and percentages between 0 and 100.</li> </ul>				