

**Carderock Springs Elementary School  
Math - Grade 4**

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 4 Unit 1</b>	Q1	Q2	Q3	Q4
• Determines how data sets can be organized, displayed, and analyzed.				
• Uses place value through the millions.				
• Describes and compares objects using geometric attributes.				
<b>Math Grade 4 Unit 1 Acceleration</b>				
• Identifies and describes what data display is appropriate for a given set of data.				
• Explains how statistical measures (mean, median, mode, range) can be used to describe the shape of the data.				
• Understands that points, lines, and planes are the foundations of geometry. (geometric figures, circles, angles)				
<b>Math Grade 4 Unit 2</b>				
• Understands that number patterns and relationships can be represented using variables.				
• Writes and solves numeric expressions involving parentheses.				
• Demonstrates proficiency with multiplication and division facts and identifies factors and multiples.				
<b>Math Grade 4 Unit 2 Acceleration</b>				
• Recognizes, describes, and analyzes the relationship between patterns and functions.				
• Uses graphs, tables, and symbols to represent relationships.				
<b>Math Grade 4 Unit 3</b>				
• Identifies, compares, and orders fractions and decimals.				
• Uses models to show how fractional parts are combined or separated.				
• Represents probability numerically and graphically.				

<b>Math Grade 4 Unit 3 Acceleration</b>	Q1	Q2	Q3	Q4
<ul style="list-style-type: none"> <li>Expresses the relationship between two numbers using fractions, decimals, and percents.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses a variety of strategies to solve problems with fractions, decimals, and percents.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses a fraction or a ratio to describe the probability of an event.</li> </ul>				
<ul style="list-style-type: none"> <li>Conducts a probability experiment and makes a prediction based on the outcomes of the experiment.</li> </ul>				
<b>Math Grade 4 Unit 4</b>				
<ul style="list-style-type: none"> <li>Multiplies and divides whole numbers and interprets the remainders.</li> </ul>				
<ul style="list-style-type: none"> <li>Estimates products to determine reasonableness of answers.</li> </ul>				
<ul style="list-style-type: none"> <li>Estimates and determines elapsed time.</li> </ul>				
<b>Math Grade 4 Unit 4 Acceleration</b>				
<ul style="list-style-type: none"> <li>Computes with whole numbers.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses mathematical properties to solve problems.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses grouping symbols to apply number properties and evaluate expressions.</li> </ul>				
<b>Math Grade 4 Unit 5</b>				
<ul style="list-style-type: none"> <li>Identifies and describes transformations (translations, reflections, and rotations).</li> </ul>				
<ul style="list-style-type: none"> <li>Develops and uses formulas to solve problems involving perimeter, area, and volume.</li> </ul>				
<ul style="list-style-type: none"> <li>Uses positive and negative numbers in concrete situations.</li> </ul>				
<ul style="list-style-type: none"> <li>Determines and uses equivalent units within the same system.</li> </ul>				
<b>Math Grade 4 Unit 5 Acceleration</b>				
<ul style="list-style-type: none"> <li>Identifies transformations in a tessellation.</li> </ul>				
<ul style="list-style-type: none"> <li>Identifies the appropriate measurable attribute to solve a problem. (length, weight, time, capacity, temperature, perimeter, area, and volume)</li> </ul>				
<ul style="list-style-type: none"> <li>Understands the relationship between linear measures and area and volume.</li> </ul>				
<ul style="list-style-type: none"> <li>Compares, orders, and describes integers on a number line.</li> </ul>				