Carderock Springs Elementary School
Math - Grade 5

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 5 Unit 1	Q1	Q2	Q3	Q4
• Uses number theory concepts of primes, factors, multiples, and rules of divisibility to show number relationships. (GCF, LCM, prime factorization)				
• Recognizes, describes, and analyzes the relationship between patterns and functions.				
• Uses graphs, tables, and symbols to represent relationships.				
• Writes and evaluates simple algebraic expressions using one variable.				
Math Grade 5 Unit 1 Acceleration				
• Uses and creates tables and charts to extend a pattern and produce a rule.				
• Reads, writes, and represents numbers using exponents.				
• Identifies and uses patterning as a strategy to solve problems.				
• Represents and interprets a quantitative relationship in a table or graph.				
• Generates and graphs a set of ordered pairs using a given rule.				
Math Grade 5 Unit 2				
• Understands that points, lines, and planes are the foundations of geometry. (geometric figures, circles, angles)				
• Draws geometric figures using tools.				
• Identifies, describes, compares, and classifies two- and three- dimensional figures using relevant properties.				
Math Grade 5 Unit 2 Acceleration				
• Classifies triangles and quadrilaterals by sides and by angles.				
• Explains how the areas of rectangles, parallelograms, triangles, trapezoids, and circles are related.				
• Explains how two-dimensional and three-dimensional figures are related.				
Math Grade 5 Unit 3				
• Expresses the relationship between two numbers using fractions, decimals, and percents.				
• Computes with fractions, decimals, and percents.				
• Uses a variety of strategies to solve problems with fractions, decimals, and percents.				

Math Grade 5 Unit 3 Acceleration	Q1	Q2	Q3	Q4
• Adds, subtracts, multiplies, and divides with decimals and fractions, including mixed numbers, expressing answers in simplest form.				
• Determines equivalent ratios, decimals, and percents.				
• Compares, orders, and describes rational numbers in equivalent forms.				
Math Grade 5 Unit 4				
• 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.				
• Computes and compares range, mean, median, and mode of data sets.				
Math Grade 5 Unit 4 Acceleration				
• 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.				
• Recognizes and identifies the misuses of statistical and numerical data.				
Math Grade 5 Unit 5				
• Identifies transformations in a tessellation.				
• Identifies the appropriate measurable attribute to solve a problem. (length, weight, time, capacity, temperature, perimeter, area, and volume)				
• Understands the relationship between linear measures and area and volume.				
Math Grade 5 Unit 5 Acceleration				
• Selects tools and units to measure accurately in given situations.				
• Uses estimation and mental math to solve problems with fractions, decimals, and percents, explaining the reasoning involved.				
• Locates, gives the coordinates of, and graphs plane figures that are the results of reflections and translations in all quadrants of the coordinate plane.				
Math Grade 5 Unit 6				
• Uses mathematical properties to solve problems.				
• Uses grouping symbols to apply number properties and evaluate expressions.				
• Writes numeric expressions in equivalent forms.				
• Uses a fraction or a ratio to describe the probability of an event.				
• Conducts a probability experiment and makes a prediction based on the outcomes of the experiment.				
Math Grade 5 Unit 6 Acceleration				
• Uses algebraic representations to solve real world problems.				
• Recognizes and uses the equality properties to solve for an unknown value in an equation.				
• Finds the probability of events, and uses data to estimate the probability of future events.				
• Demonstrates the relationship between experimental and theoretical probability.				