Report: MN Benchmarks

Number And Operation 4th Grade - EL Math Elementary	
ELEM.MATH.G4.1.2.1	Demonstrate fluency with multiplication and division facts.
ELEM.MATH.G4.4.1.1.1	Read, write and represent whole numbers up to 100,000. Representations include numerals, words and expressions with operations.
ELEM.MATH.G4.4.1.1.2	Find 10,000 more and 10,000 less than a given five-digit number. Find 1,000 more and 1,000 less than a given five-digit number.
ELEM.MATH.G4.4.1.1.3	Use an understanding of place value to multiply a number by 10, 100 and 1000.
ELEM.MATH.G4.4.1.1.4	Estimate products and quotients of multi-digit whole numbers by using rounding, benchmarks and place value to assess the reasonableness of results in calculations.
ELEM.MATH.G4.4.1.1.5	Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction and multiplication of multi-digit whole numbers. Use various strategies including the relationships between the operations and a calculator to check for accuracy.
ELEM.MATH.G4.4.1.2.2	Multiply multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms.
ELEM.MATH.G4.4.1.2.5	Use strategies and algorithms based on knowledge of place value and properties of operations to divide multi-digit whole numbers by one- or two-digit numbers. Strategies may include mental strategies, partial quotients, the commutative, associative, and distributive properties and repeated subtraction.
ELEM.MATH.G4.4.1.3.1	Represent equivalent fractions using fraction models such as parts of a set, fraction circles, fraction strips, number lines and other manipulatives. Use the models to determine equivalent fractions.
ELEM.MATH.G4.4.1.3.2	Locate fractions on a number line. Use models to order and compare whole numbers and fractions, including mixed numbers and improper fractions.
ELEM.MATH.G4.4.1.3.3	Use fraction models to add and subtract fractions with like denominators in real-world and mathematical situations. Develop a rule for addition and subtraction of fractions with like denominators.
ELEM.MATH.G4.4.1.3.4	Read and write decimals with words and symbols; use place value to describe decimals in terms of groups of thousands, hundreds, tens, ones, tenths, hundredths and thousandths.
ELEM.MATH.G4.4.1.3.5	Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.
ELEM.MATH.G4.4.1.3.6	Locate the relative position of fractions, mixed numbers and decimals on a number line.

ELEM.MATH.G4.4.1.3.7	Read and write tenths and hundredths in decimal and fraction notations using words and symbols; know the fraction and decimal equivalents for halves and fourths.
ELEM.MATH.G4.4.1.3.8	Round decimal values to the nearest tenth.

Algebra
4th Grade - EL Math Elementary

ELEM.MATH.G4.4.2.1.1	Create and use input-output rules involving addition, subtraction, multiplication and division to solve problems in various contexts. Record the inputs and outputs in a chart or table.
ELEM.MATH.G4.4.2.2.1	Identify a pattern that is consistent with these figures, create an input-output rule that describes the pattern, and use the rule to find the number of dots in the 10th figure.
ELEM.MATH.G4.4.2.2.1	Understand how to interpret number sentences involving multiplication, division and unknowns. Use real-world situations involving division to represent number sentences.
ELEM.MATH.G4.4.2.2.2	Use multiplication, division and unknowns to represent a given problem situation using a number sentence. Use number sense, properties of multiplication, and the relationship between multiplication and division to find values for the unknowns that make the number sentences true.

Geometry And Measurement
4th Grade - EL Math Elementary

ELEM.MATH.G4.3.3.2	Apply reflections (flips) to figures by reflecting over vertical or horizontal lines and relate reflections to lines of symmetry.
ELEM.MATH.G4.4.3.1.1	Describe, classify and sketch triangles, including equilateral, right, obtuse and acute triangles. Recognize triangles in various contexts.
ELEM.MATH.G4.4.3.1.2	Describe, classify and draw quadrilaterals, including squares, rectangles, trapezoids, rhombuses, parallelograms and kites. Recognize quadrilaterals in various contexts.
ELEM.MATH.G4.4.3.2.1	Measure angles in geometric figures and real-world objects with a protractor or angle ruler.
ELEM.MATH.G4.4.3.2.2	Compare angles according to size. Classify angles as acute, right and obtuse.
ELEM.MATH.G4.4.3.2.3	Understand that the area of a two-dimensional figure can be found by counting the total number of same size square units that cover a shape without gaps or overlaps. Justify why length and width are multiplied to find the area of a rectangle by breaking the rectangle into one unit by one unit squares and viewing these as grouped into rows and columns.
ELEM.MATH.G4.4.3.2.4	Find the areas of geometric figures and real world objects that can be divided into rectangular shapes. Use square units to label area measurements.
ELEM.MATH.G4.4.3.3.1	Apply translations (slides) to figures.

ELEM.MATH.G4.4.3.3.3	Apply rotations (turns) of 90 degrees clockwise or counterclockwise.
ELEM.MATH.G4.4.3.3.4	Recognize that translations, reflections and rotations preserve congruency and use them to show that two figures are congruent.

Data Analysis
4th Grade - EL Math Elementary

ELEM.MATH.G4.4.4.1.1	Use tables, bar graphs, timelines and Venn diagrams to display data sets. The data may include fractions or decimals. Understand that spreadsheet tables and graphs can be used to display data.