4th Grade Math Placemat

Number and Operations in Base Ten

4.NBT.A – Generalize place value understanding for multi-digit whole numbers			4.NBT.B – Use place value understanding and properties of operations to perform multi-digit		
4.NBT.01 – Recognize that a multi-digit whole numbers, a digit in ones place is ten times greater than one place to its right	4.NBT.02 – Read and write multi-digit whole numbers up to one million using base ten numerals, number name, and expanded form. Compare two multi-digit numbers using <,> and = symbols to record the results, and justify the comparisons.	4.NBT.03 –Use place value understanding to round multi-digit whole numbers to any place	4.NBT.04 – Fluently add and subtract multi-digit whole numbers	4. NBT.05 – Multiply a number of up to four digits by a one-digit whole number, and multiply two, two digit numbers, using strategies based on place value and the properties of operations, and justify the solution.	4. NBT.06 – Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution

Number and Operations – Fractions

4.NF.A – Extend understanding of fraction equivalence and ordering		4.NF.B – Build fractions from unit fractions		4.NF.C – Understand decimal notation for fractions, and compare decimal fractions	
4.NF.01 – Explain and/or illustrate why two fractions are equivalent and recognize and generate equivalent fractions.	4.NF.02 – Compare two fractions with different numerators and different denominators. Record the results of comparisons with <,>, or =, and justify the solution.	4.NF.03 – Understand a fraction a/b with a >1 as a sum of fraction 1/b. 4.NF.03a – Add and subtract fractions by joining and separating parts of the same whole 4.NF.03b – Decompose a fraction into a sum of fractions with the same denominator in more than one way using an equation 4.NF.03c – Add and subtract mixed numbers with like denominators 4.NF.03d – Solve word problems involving addition and subtraction of fractions	4.NF.04 – Apply and extend previous understandings of multiplication to multiply a fraction by a whole number 4.NF.04a – Understand a fraction a/b as a multiple of 1/b 4.NF.04b – Understand a multiple of a/b as a multiple of 1/b to multiply a fraction by a whole numbers 4.NF.04c – Solve word problems involving multiplication of a fraction by a whole number	4.NF.05 – NA 4.NF.06 – Use decimal notation for fractions with denominators 10 to 100	4.NF.07 – Compare two decimals to hundredths by reasoning about their size. Record the results of comparisons with <,>, or =
4.NF.C.10 – Understand that fractions and decimals are equivalent representations of the same quantity.				4.NF.C.11 – Read, write and identify decimals to the hundredths place using number names, base ten numerals and expanded form.	

Operations and Algebraic Thinking

4.OA.A – Use the four operations with whole numbers to solve problems			4.OA.B – Gain familiarity with factors and multiples	4.OA.C – Generate and analyze patterns
4.OA.01 – Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations	4.OA.02 – Multiply or divide to solve word problems involving multiplicative comparison, distinguishing multiplicative comparison from additive comparison	4.OA.03 – Solve multistep word problems posed with whole numbers using the four operations, including problems in which remainders must be interpreted. Use estimation to interpret the reasonableness of the answer, and justify the solution.	4.OA.04 – Find all factor pairs and multiples for a whole number in a range 1-100. Determine whether a number is composite or prime	4.OA.05 – Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. Use words or mathematical symbols to express a rule for a given pattern.

Measurement and Data							
4.MD.A – Solve problems involving measurement and conversion of measurements			**4.MD.B – Represent and interpret data**	**4.MD.C – Geometric measurement: understand concepts of angles and measure angles**			
4.MD.01 – Know relative sizes of units within one system of measurement, (English, metric, time, etc.) and convert larger units in terms of a smaller unit.	4.MD.02 – Use the four operation to solve word problems involving distances, intervals of time, liquid volumes, weight of objects, and money, including problems involving simple fractions or decimals	4.MD.03 – Apply the area and perimeter formulas for rectangles in real world and mathematical problems	4.MD.04 - Create a frequency table and/or line plot to display measurement data Solve problems involving addition and subtraction by using information presented in line plots.	4.MD.05 – Identify and estimate angles and their measure.	4.MD.06 – Draw and measure angles in whole–number degrees using a protractor. Sketch angles of specified measure	4.MD.07 – Recognize angle measure as additive. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems	4.DS.A.3 – Analyze the data in a frequency table, line plot, bar graph or picture graph.

Geometry		
4.G.A – Drawn and identify lines and angles, and classify shapes by properties of their lines and angles		
4.G.01 – Draw and identify points, lines, line segments, rays, angles, and perpendicular and parallel lines	4.G.02 – Classify two-dimensional shapes by their sides and /or angles based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles	4.G.03 – Recognize and construct a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts

BOLD – Priority Standards

Blue – New wording coming from the NEW MLS

Red – Completely NEW standard from MLS

Green – In the CCSS but not in MLS, BUT we are still going to teach it