3rd Grade Math Placemat

Number and Operations in Base Ten

3.NBT.A - Use place value to understand the properties of operation to perform multi-digit arithmetic

3.NBT.01 - Round whole numbers to the nearest 10 or 100	3.NBT.02 - Fluently add and subtract within 1000, using multiple strategies	3.NBT.03 - Multiply one-digit whole numbers by multiples of 10 in a range of 10-90	3.NBT.A.2 - Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.

Number and Operations - Fractions

3.NF.A - Develop understanding of fractions as numbers

3.NF.01 - Understand a unit fraction as the quantity formed by 1 part when a whole is partitioned into equal parts. Describe what the numerator and the denominator represent	3.NF.02 - Understand a fraction as a number on the number line (MLS 3.NF.A.3) 3.NF.02a --Understand the whole is the interval from 0 to 1 and is partitioned into equal parts. 3.NF.02b - Understand a fraction represents the endpoint of the length a given number of partitions from 0	3.NF.03 - Explain equivalence of fraction in special cases 3.NF.03a -Demonstrate two fractions as equivalent if they are the same size or same point on the number line 3.NF.03b - Recognize and generate simple equivalent fractions, explain why fractions are equivalent using visual fraction models 3.NF.03c - Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers 3.NF.03d - Compare two fractions with the same numerator or the same denominator

Operations and Algebraic Thinking

3.OA.A - Represent and solve problems involving multiplication and division				3.OA.B - Understand properties of multiplication and the relationship between multiplication and divisioN		3.OA.C - Multiply and divide within 100	3.OA.D - Solve problems involving the four operations, and identify and explain patterns in arithmetic	
3.OA.01 - Interpret products of whole numbers; describe in words or drawings	3.OA.02 - Interpret whole-number quotients of whole numbers; describe in words or drawings	3.OA.03 - Use multiplication and division within 100 to solve word problems involving equal groups, arrays, and measurement quantities	3.OA.04 - Determine the unknown whole number in a multiplication or division involving three whole numbers	3.OA.05 - Apply properties of operations as strategies to multiply and divide	3.OA.06 - Understand division as an unknown factor problem	3.OA.07 - Fluently multiply and divide within 100, by the end of the year, memorize all products of two one digit numbers	3.OA.08 - Write and solve 2 -step word problems using the four operations, represent equations using a variable; and interpret the reasonableness of answers	3.OA.09 - Identify arithmetic patterns and explain them using properties of operations

Measurement and Data							
3.MD.A - Solve problems involving measurement and estimation		**3.MD.B - Represent and interpret data**		**3.MD.C - Geometric measurement: understand concepts of area and relate area to multiplication and addition**			**3.MD.D - Geometric measurement: recognize perimeter**
3.MD.01 - Tell and write time to the nearest minute; estimate time intervals in minutes; solve word problems involving addition and subtraction of minutes	3.MD.02 - Measure, estimate, and use the four operations to solve one-step word problems involving length, liquid volumes and weight of objects	3.MD.03 -Create a scaled picture graph, frequency table, and a scaled bar graph to represent data with several categories. Solve one and two step "how many more and less" problems using info presented in a bar graph.	3.MD.04 - Create a line plot to represent data and answer questions	3.MD.05 - Recognize areas as an attribute of plane figures and understand concept of area measurement 3.MD.05a - Recognize a square with side length of 1 unit, has "one square unit" of area 3.MD.05b - Recognize a plane figure which can be covered without gaps or overlaps of n unit squares has n area of n square units	3.MD.06 - Measure and label areas by counting unit squares	3.MD.07 - Relate area to the operations of multiplication and addition 3.MD.07a - Find the area of a rectangle with whole number side lengths by tiling it, showing area is the same as found by multiplying the side lengths 3.MD.07b - Multiply side lengths to find areas of rectangles with whole number lengths 3.MD.07c - Use area models to represent the distributive property 3.MD.07d - Recognize area as additive, by decomposing them and adding the areas together	3.MD.08 - Solve real-world mathematical problems involving perimeters of polygons, find perimeter or find unknown side

Geometry	
3.G.A - Reason with shapes and their attributes	
3.G.01 - Understand that shapes in different categories may share attributes, and define a larger category (rhombus, rectangles and squares as quadrilaterals)	3.G.02 - Partition shapes into parts with equal areas, express the area of each part as a unit fraction of the whole

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