Third Grade (Investigation)

4th Nine Weeks: Scope and Sequence

Content Standards	Dates Taught	% of Students scoring over 70%	Dates Re-taught (Optional)	Formative and Summative Assessments/ (Any Additional Comments Optional)
9. Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends. [3.OA.9]				
3. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. [3.OA.3]				
8. Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. [3.OA.8]				
11. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. [3.NBT.2]				
5. Apply properties of operations as strategies to multiply and divide. Examples: If 6 x 4 = 24 is known, then 4 x 6 = 24 is also known. (Commutative property of multiplication.) 3 x 5 x 2 can be found by 3 x 5 = 15, then 15 x 2 = 30, or by 5 x 2 = 10, then 3 x 10 = 30. (Associative property of multiplication.) Knowing that 8 x 5 = 40 and 8 x 2 = 16, one can find 8 x 7 as 8 x (5 + 2) = (8 x 5) + (8 x 2) = 40 + 16 = 56. (Distributive property.) [3.OA.5]				
7. Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 / 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers. [3.OA.7]				
10. Use place value understanding to round whole numbers to the nearest 10 or 100. [3.NBT.1]				
18. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets. [3.MD.3]				
19. Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the				

horizontal scale is marked off in appropriate units – whole numbers, halves, or quarters. [3.MD.4]	
23. Solve real world and mathematical problems involving perimeters of polygons,	
including finding the perimeter given the side lengths, finding an unknown side length,	
and exhibiting rectangles with the same perimeter and different areas or with the same	
area and different perimeters. [3.MD.8]	
20. Recognize area as an attribute of plane figures and understand concepts of area	
measurement. [3.MD.5]	
A square with side length 1 unit, called "a unit square," is said to have "" "" "" "" "" "" "" "" "" "" "" "" "	
"one square unit" of area, and can be used to measure area.	
A plane figure which can be covered without gaps or overlaps by n unit	
squares is said to have an area of n square units.	
21. Measure areas by counting unit squares (square cm, square m, square in, square	
feet, and improvised units). [3.MD.6]	
22. Relate area to the operations of multiplication and addition. [3.MD.7]	
Find the area of a rectangle with whole-number side lengths by tiling it,	
and show that the area is the same as would be found by multiplying the	
side lengths.	
 Multiply side lengths to find areas of rectangles with whole-number side 	
lengths in the context of solving real world and mathematical problems,	
and represent whole-number products as rectangular areas in	
mathematical reasoning.	
 Use tiling to show in a concrete case that the area of a rectangle with 	
whole-number side lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$. Use	
area models to represent the distributive property in mathematical	
reasoning.	
 Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas 	
of the non-overlapping parts, applying this technique to solve real word	
problems.	
24. Understand that shapes in different categories (e.g., rhombuses, rectangles, and	
others) may share attributes (e.g., having four sides), and that the shared attributes can	
define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and	
squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not	
belong to any of these subcategories. [3.G.1]	
17. Measure and estimate liquid volumes and masses of objects using standard units	
of gram (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve	
one-step word problems involving masses or volumes that are given in the same units,	
e.g., by using drawings (such as a beaker with a measurement scale) to represent the	
problem. [3.MD.2]	
Proceem [cum:2]	