General Unit Plan Template

Course: Unit Plan			
Time (Month or Days): Jan. 3rd - Feb. 17th (34 days)	Unit: 3		
Big ideas: Multiplication/ Area/Shapes	Essential questions: How can we fluently multiply within 100? How can you solve problems that involve more than one step? How can you use multiplication and division facts to solve problems? How can you find the total number of objects in equal groups? What are arrays, and how do they show multiplication?		
Prerequisite     Skip count     Equal groups     Add and subtract	<ol> <li>Student learning targets:         <ol> <li>Use strategies to recall facts when needed.</li> <li>Describe patterns in addition and multiplication charts.</li> <li>Represent multiplication with equal groups.</li> <li>Represent multiplication with arrays.</li> <li>Tile to find the area of a rectangle.</li> <li>Measure the area of a shape by covering it with square units and counting the number of unit squares used. (3.md.6)</li> <li>Describe a square unit.</li> <li>Describe area as the measure of space within a plane figure</li> <li>Explain the relationship between tiling and multiplying side lengths to find the area of rectangles.</li> <li>Explain why area is measured in square units. (3.MD.5)</li> <li>Use area models to explain the commutative property.</li> </ol> </li> <li>Use area models to explain the distributive property.</li> <li>Explain patterns in multiplication for</li> </ol>		
	13. Explain patterns in multiplication for example (even x even = even, odd x odd = odd, and odd x even =		

- even) (3.OA.9)
- 14. Relate repeated addition to representations of multiplication. (3.OA.A.1)
- 15. Multiply one-digit numbers by 10.
- 16. Determine the unknown number in multiplication and division problems such as in the following examples: 8 x 9 = ?, 8 x ? = 48, ? x 3 = 27, 28 ÷ 7 = ?, ? ÷ 6 = 3, and 35 ÷ ? = 7. (3.OA.A.4)
- 17. Recall basic facts quickly.
- 18. Use place value and properties to multiply multiples of 10 (e.g., 9 x 80 = 9 x (8 x 10) = (9 x 8) x 10; or 9 x 80 = (9 x 50) + (9 x 30). (3.NBT.3)
- 19. Explain how multiplication with multiples of 10 is related to basic facts. (e.g. 4 x 5 = 20, 4 x 5 tens = 20 tens, so 4 x 50 = 200).

## **TEACHING AND TESTING STRATEGIES**

- 20. Represent a multiplication or division word problem with models, drawings, and equations.
- 21. Solve word problems with multiplication or division.
- 22. Use estimation or related facts to determine if answers are reasonable.

Standards	Vocabulary	Skills	Activities (Resources)	Assessment
*3.OA.A.3- Use multiplication within 100 to	Equal groups Arrays, repeated addition, skip	Use multiplication, solve word		

solve word problems involving equal groups/arrays	counting, groups of, pattern, row, column	problems		
*3.OA.C.7- Fluently multiply within 100	Factor, multiple, product, pattern, multiply	Fluently multiply		
*3.OA.D.8- Solve two-step word problems using multiplication		Solve two-step word problems		
3.MD.C.7- Relate area to multiplication and addition (area)	Area, quadrilateral, attribute, side length, square unit, tiling	Relate area	Area word problem	
3.OA.A.1- Interpret products of whole numbers	Whole number	Interpret products		
3.OA.A.4- determine the unknown number in a multiplication equation 0	Unknown number, equation	Determine the unknown number		
3.NBT.3- multiply by multiples of 10		Multiply by multiples		
3.OA.B.5- apply properties	Commutative property, zero property, identity property, associative property	Apply properties		
3.OA.9- arithmetic patterns odd and even	Odd, even	Determine odd and even		
3.MD.5- concepts of area		Understand the concept of area		

3.MD.6- Counting unit squares		Count square units	
Instructional Dates	: 34		

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