Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 3* / Grade 3 (Math Regional Curriculum)

Wednesday, September 26, 2012, 2:31PM

Standard/Module: Proficiency in multiplication and division 3.OA.3 (Week 1, 39 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) connects with 3.OA.1-2, 3.MD.2, 3.MD.4, 3.MD.4-7

Grade 3 Proficiency Maps.pdf

Standards

NYS: CCLS:Mathematics, NYS: 3rd Grade , Operations & Algebraic Thinking

3.OA Represent and solve problems involving multiplication and division.

- 3. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.

Enduring Understandings	Essential Questions
1. Understand that multiplication and division are related (fact families) 2. Create and explain an array. 3. Variables in an equation(symbol for an unknown number) 4. Understand how to find and use critical information in a word problem	1. How would you use a fact family to find a missing variable in an equation? 2. How would you create an array based on given information 3. What information is needed to solve the following word problem? (give word problems that do not need to be solved, find critical information only)

Critical Content

Using multiplication and division to solve word problems.

-involving equal groups

-arrays

-measurement quantities (time, volume, linear)

Problem solving strategies

-key words

-Essential vs. non-essential information

-choosing an operation

-choose a strategy to explain or illustrate the solution

-does the solution make sense

Skills	Vocabulary
Analyze the word problem Explain thinking Use multiple operations to solve the same problem (ie. Repeated addition, multiplication, division, fact families) Draw diagrams, pictures, tables, patterns, or numbers etc. to solve a problem.	Tier 2: essential, non-essential, operation, volume, critical Tier 3: array, word problems, linear, fact family

Stage 2: Assessment Evidence

Assessments

Solving multiplication and division situations
Formative: Test: Written

Students write a multiplication and a division problem for a given picture, and students draw a picture for a given multiplication or division problem that is posed.

Solving multiplication and division situations in word problems
Formative: Test: Written

Students choose a representation for a word problem that involves multiplication or division

Stage 3: Learning Plan

Learning Activities	Resources
Students work on building arrays and building equal groups with a given number of objects to represent word problems. Bridge the manipulatives to the use of bar diagrams.	www.illuminations.nctm.org www.illustrativemathematics.org

Differentiation Opportunities

Help students break down word problems using bar diagrams to determine what the problem is asking the student to find. Use arrays or open number lines to support the problem solving.

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