Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

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

Wednesday, September 26, 2012, 2:47PM

Standard/Module: Proficiency in measurement and data 3.MD.2 (Week 7, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) connects to 3.MD.1, 3.NBT.1

Grade 3 Proficiency Maps.pdf

Standards

NYS: CCLS:Mathematics, NYS: 3rd Grade , Measurement & Data
3.MD Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

- 2. Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l).6 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.

Enduring Understandings	Essential Questions
1. Mass is the amount of matter that is in an object.	1. What tool would you use to measure liquid volume?
2. Volume is the amount of space a three-dimensional object occupies.	2. What tool would you use to measure mass?
3. measurement tools	3. What are the standard units of measure for mass?
	4. What are the standard units of measure for volume?

Critical Content

1. Metric units of mass and how they are related:

   a. grams (g)

   b. kilograms (kg)

2. Metric unit of volume

   a. liters (l)

3. Solve one-step word problems involving mass and volume.

Skills	Vocabulary

1. Measure and estimate liquid volumes using standard metric units: liters. 2. Measure and estimate masses of objects using standard metric units: grams, kilograms. 3. Solve addition, subtraction, multiplication and division one-step word problems involving masses. 4. Solve addition, subtraction, multiplication and division one-step word problems involving volume.	Tier two: standard Tier three: Mass, gram (g), kilograms (kg), volume: liters (l) metric,

Stage 2: Assessment Evidence

Assessments

Find the Mass and the Volume
Formative: Performance: Lab Assignment

Students find the mass and/or the volume of different items that are laid out. This assessment will determine whether students are using tools correctly and whether students are able to determine whether an answer is reasonable.

Stage 3: Learning Plan

Learning Activities	Resources
Students experiment with different containers to identify relationships between the volumes of different containers to conceptualize "liters." Students experiment with gram and kilogram weights to conceptualize mass. Students should use a pan and balance or other types of scales to identify the masses of different objects. Students should make predictions about the masses and volumes of different objects then test their predictions by finding the mass or the volume. Mini Metric Olympics (AIMS Project lesson) is a good activity to use with kids.	www.illuminations.nctm.org www.illustrativemathematics.org

Differentiation Opportunities

Students should work in groups and talk about their findings. Monitor the groups for possible misconceptions.

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