Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 2* / Grade 2 (Math Regional Curriculum)

Monday, October 15, 2012, 2:08PM

Standard/Module: Proficiency with Measurement 2.MD.3 (Week 3, 34 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) Connects to 2.MD.1-4 and 2.MD.9

Standards

NYS: CCLS:Mathematics, NYS: 2nd Grade , Measurement & Data
2.MD Measure and estimate lengths in standard units.

- 3. Estimate lengths using units of inches, feet, centimeters, and meters.

Enduring Understandings	Essential Questions
This standard calls for students to estimate the lengths of objects using inches, feet, centimeters, and meters. Students should make estimates after seeing a benchmark unit, such as the length of one inch, before making their estimate.	What can I observe (and remember) that is about one inch? What can I observe (and remember) that is about one foot? What can I observe (and remember) that is about one centimeter? What can I observe (and remember) that is about one meter? When looking at an object, reference(s) can I use to estimate the length? When looking at an object, how do I know what is a reasonable estimate?

Critical Content

Estimation helps develop familiarity with the specific unit of measure being used. To measure the length of a shoe for example, knowledge of an inch or a centimeter is important so that one can approximate the length in inches or centimeters.

Skills	Vocabulary
I can estimate the length of objects using a reference that I have previously observed and measured.	Tier 2: estimate, units, lengths Tier 3: inches, feet, centimeters, meters

Stage 2: Assessment Evidence

Assessments

Estimating and Measuring Objects
Formative: Performance: Skill Demonstration

For example: Look at your ruler to see how long one inch is. Now, estimate the length of this paper in inches. Write down your estimate. Now measure the paper with your ruler and write down how long your paper measures.

Stage 3: Learning Plan

Learning Activities	Resources
Look at your ruler to see how long one inch is. Now, estimate the length of this paper in inches. Students should begin practicing estimation with items which are familiar to them (length of desk, pencil, favorite book, etc.). Some useful benchmarks for measurement are: (these are for adults so they will need to be adjusted for 2nd graders) -First joint of a thumb to the tip of a thumb is about an inch -Length from your elbow to your wrist is about a foot (possibly to the tip of their fingers instead of to the wrist on a second grader) -If your arm is held out perpendicular to your body, the length from your nose to the tip of your fingers is about a yard	www.illustrativemathematics.org www.illuminations.nctm.org AIMS foundation: Mini Metric Olympics

Differentiation Opportunities

Students should begin practicing estimation with items which are familiar to them (length of desk, pencil, favorite book, etc.). Move them into less familiar items and practice the estimation before measuring.

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