

NCLB Math Institute Summer 2011



Faculty Name: Angela Young

School: Carver Elementary

Grade Level: 3rd

I. Teaching Objective (s)

Standard 4 - Measure and explain the measurable attributes of objects, units, systems, and processes.

Objective:

- 4c. Measure capacity, weight/mass, and length both in English and metric systems of measurement.
(DOK 1)

II. Instructional Activities

- Given an assortment of objects, the students will tell which measuring tool they will use to measure.
- Students will measure the objects and record their findings on their data sheet.
- The class will discuss the findings as a whole group activity.

Procedures

- Opening: Access students' prior knowledge.
- Measure different objects in the classroom, (paper clip, pencil, door, milk,).
- Discuss the unit of measure that was to measure the different objects, (foot, yard, mile, inches, and degrees).
- In whole group discuss measuring tools, (rulers, thermometers, measuring cups and yardsticks).
- Give examples of what the different tools can measure.
- Pair students off into groups.
- Place certain objects that are to be measured on the tables that the groups will be working on. (water, soda,)

- Tell the students that the other objects that are to be measured are around the classroom, (table, chalkboard and door).
- Place different measuring tools on each table (rulers, thermometers, measuring cups and yardsticks).
- Distribute data sheets.
(See Attachment 1)
- Instruct students to write the name of each object from the table on their data sheet under the heading, “Objects”.
- Instruct students to choose what measuring tool will be the most appropriate to use and record it on their data sheet under the heading, “Measuring Tool Used”.
- Students will then measure the objects and record their measurement on their data sheet under the heading, “What’s the Measurement?”
- Students will compare answers as a whole group activity.
- Students will discuss why they chose the different measuring tools they used in the activity.

III. Materials

- Paper
- Pencil
- Table
- Water
- A Person
- Door
- Soda
- Ruler
- Yardstick
- Thermometer
- Data Sheet (Attachment 1)
- Rubric (Attachment 2)

IV. Assessment

Students will be assessed on the collaborations in their groups and the participation in the whole group discussion through teacher’s observation. (See Attachment 2)

V. Resources

- HSP Math (www.hartcourtschool.com)
- <http://www.worksheetworks.com/math/measurement/best-units.html>
- http://www.teach-nology.com/web_tools/rubrics/

Name _____

Date _____

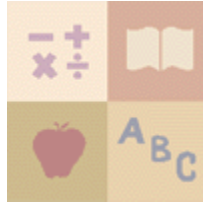
Measuring Madness

Directions: Measure the objects on the table and around the classroom. Choose a measuring tool from the table that would be used to measure the different object. Record your findings in the following chart under the appropriate heading.

Sketch Objects	Measuring Tool Used	What's the Measurement?	Why was this unit of measurement chosen?

Attachment 2

Carver Elementary
Measuring Madness Rubric



Name: _____

Teacher: Angela Fairley Young

Date Submitted: _____

Title of Work: _____

	Criteria				Points
	4	3	2	1	
Explanation	A complete response with a detailed explanation.	Good solid response with clear explanation.	Explanation is unclear.	Misses key points.	___
Use Of Visuals	Clear diagram or sketch with some detail.	Clear diagram or sketch.	Inappropriate or unclear diagram.	No diagram or sketch.	___
Mechanics	No math errors.	No major math errors or serious flaws in reasoning.	May be some serious math errors or flaws in reasoning.	Major math errors or serious flaws in reasoning.	___
Demonstrated Knowledge	Shows complete understanding of the questions, mathematical ideas, and processes.	Shows substantial understanding of the problem, ideas, and processes.	Response shows some understanding of the problem.	Response shows a complete lack of understanding for the problem.	___
Requirements	Goes beyond the requirements of the problem.	Meets the requirements of the problem.	Hardly meets the requirements of the problem.	Does not meet the requirements of the problem.	___
				Total---->	___

Teacher Comments: _____
