**Measurement Lab**

**Purpose:**

 To learn and practice how to estimate measurements.

 To practice working with the metric system.

 To practice using various measuring devices

**Materials:**

 Objects around the room listed below.

 A meter stick, beaker, and weight in front of class available for

 comparisons, not measurement.

 calculator

**Procedure: Step 1**

 Estimate the measurements asked for on the following objects by

 comparing them to the measurements of a known object.

Estimate the following.

Object Measure It's Estimation Actual (+units)

table height in centimeters \_\_\_\_\_\_\_\_\_

table length in centimeters \_\_\_\_\_\_\_\_\_

table area of top in cm2 \_\_\_\_\_\_\_\_\_

classroom volume in cubic meters \_\_\_\_\_\_\_\_\_

hall window area in millimeters \_\_\_\_\_\_\_\_\_

Ms. Pilarz height in meters \_\_\_\_\_\_\_\_\_

pen/pencil mass in grams \_\_\_\_\_\_\_\_\_

glass of water volume in milliliters \_\_\_\_\_\_\_\_\_

glass of water temperature in F \_\_\_\_\_\_\_\_\_

sheet of paper height in millimeter \_\_\_\_\_\_\_\_\_

**Step 2** After you have completed your estimations and shown Ms. Pilarz, pick up a meter stick and beaker and measure. Record the new data in the column -Actual.

1. Explain the process or comparisons you used to make your

 estimations.

2. Which was the hardest estimation for you to make? Why?

3. What kind of general conclusions can you make about your

 awareness of length, volume, and area comparing the data?