

PROCEDURES

Follow the instructions for making each of the following measurements and record in the appropriate data table on the "Datasheet."

I. Length

1. Estimate the length of the board, in meters, using only your eyes.
2. Use a 1 meter long piece of string to measure the height of the door and the width of your desk.
3. Now use a meter stick to make the same measurements as in #2.
4. Use the ruler to measure the width and length of this sheet of paper in cm and in mm.

II. Volume

1. Using the graduations on the beaker, measure the volume of liquid in the beaker.
2. Use a graduated cylinder to measure the same liquid.
3. Fill a 250 mL flask completely full of water. Use a large graduated cylinder to measure the capacity of the flask.

III. Temperature

1. Measure the temperature of 100 mL of tap water.
2. Measure the temperature of 200 mL of tap water.

IV. Mass

1. Obtain a balance. Follow your teacher's instructions for correctly using the balance.
2. Place a coin directly on the balance and find its mass.
3. Repeat with a different coin for each lab partner.
4. Mass the empty cup.
5. Use a graduated cylinder to measure 50 mL of water and add to the cup.
6. Mass the cup with the water in it.
7. Determine the mass of the water.