

1. Volume and Density Lab Journal Entry:

a. Part 1

- i. Objective: use displacement method and standard measurement method to determine the volume of an object
- ii. Procedure:
 1. Record mass of copper plate to the nearest tenth
 2. Record the length, width, and height of the copper plate to the nearest tenth of a cm.
 3. Calculate the volume of the copper plate.
 4. Take the mass of the second object to the nearest tenth of a gram.
 5. Fill a 100 ml graduated cylinder between 70 - 80 ml of water. Record the exact level of the water to the nearest tenth of a ml.
 6. Place the object into the filled graduated cylinder and record the new level of water.
 7. Subtract the old level from the new level to determine the amount of water displaced. (= to the volume of the object)

b. Part 2

- i. Objective: calculate density and percent error
- ii. Procedure:
 1. Use the information from part 1 to calculate the density of the copper and the object.
 2. Obtain the identity of your unknown object from the teacher and look up the density of that object and of copper in the MERK index.
 3. Record the information from the MERK index and calculate your % error for both the copper and the object.
 4. Create a data table of all your data from both part 1 and 2
 5. Under the data table describe some possible reasons for your % error other than just stating human error.