Density of Liquids and Solids

Purpose: To determine the density of a liquid and a solid.

Equations:

$$d = \frac{m}{V}$$
$$\text{cm}^3 = \text{ml}$$
$$V = l \times w \times t$$

Materials:

Apparatus: graduated cylinder, scale, rubber stopper.

Chemicals: Rubbing Alcohol, flammable, unknown liquid, unknown.

Procedure:

Method

Part I.

1. Weight of dry 10ml grad cylinder.

2. 5-6ml of rubbing Alcohol into grad cylinder.

3. Read Volume - Record
4. Weight of grad cylinder + alcohol
Method

5. Transfer Alcohol to Test tube.

6. 4-5ml alcohol into grade cylinder

7. Volume and weight

Part II

1. Obtain a rubber stopper and get weight.

2. Put 50-60ml of water in a 100ml grad cylinder

3. Record volume

4. Place rubber stopper in water in grad cylinder.

5. Record new volume.

Part III

1. Obtain an unknown record its number and its weight

2. Measure volume like Part II