Date

Finding the Density of Common Liquids

Materials

- > 10ml graduated cylinder
- > Triple beam balance
- > Paper Towels
- Eye Dropper
- Vegetable oil
- > Rubbing alcohol
- Salt water
- Dish soap

Procedure

- 1. Weigh the empty 10 ml graduated cylinder and record its mass.
- 2. Fill the graduated cylinder with 10 ml of one of the liquids (vegetable oil, rubbing alcohol, salt water and dish soap) and then find its mass. Remember to subtract the weight of the graduated cylinder from the total. Record the mass.

(Mass of Veg. Oil in grad. cylinder) (M	Nass of empty grad. cylinder) =	(Mass of Veg. Oil)
(Mass of Alcohol in grad. cylinder) (Mass of Alcohol in grad. cylinder)	lass of empty grad. cylinder) =	(Mass of Alcohol)
(Mass of Salt H20in grad. cylinder) (N	Mass of empty grad. cylinder) =	(Mass of Salt H_20)

(Mass of Dish Soap in grad. cylinder)(Mass of empty grad. cylinder) (Mass of Dish Soap)

3. Using the formula D=M/V, find the density of each liquid.

- Density of vegetable oil:
- Density of rubbing alcohol:
- Density of salt water:
- Density of dish soap:

- 4. Which liquid is the most dense?
- 5. Which liquid is the least dense?