Name_____

Density of Liquids

Purpose:
1. To learn how to find the density of liquids and to compare several liquids.
2. To collect data by observing and measuring
3. To analyze and interpret information to construct reasonable explanations from direct and indirect evidence
4. To communicate valid conclusions

Materials:

5 liquids	graduated cylinder	balance	calculators

Procedure:
1. Use the triple beam balance to find the mass your graduated cylinder. (empty) Record.
2. Add 25 ml of the first liquid.
3. Find the mass of the graduated cylinder + the liquid. Record.
4. Subtract. The mass of the graduated cylinder from the mass of the graduated cylinder + the liquid. Record.
5. Calculate density. D = M/V
6. Repeat for all liquids.

Prediction: Predict the density of the liquids from least to greatest
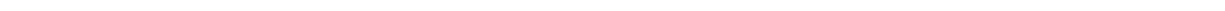
_____

_____

Group Data:

Liquid	Mass of graduated cylinder	Mass of graduated cylinder + liquid	Mass of Liquid	Volume	Density
Salt water					
Corn syrup					
Alcohol					
Water					
Oil					

Class Data:

Liquid	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Average Density
Salt water									
Corn syrup									
Alcohol									
Water									
Oil									

Data Analysis:

Graph your data using bar graph. Remember TAILS & DRY MIX.   Why is a bar graph most appropriate?
_____

Conclusion:

1. Why did everyone not get the same densities for the liquids?

2. If you poured all the liquids together in a graduated cylinder what order would they settle in? Draw and label a diagram of the liquids in the cylinder

3. Why do they settle in this order?