

Water Floats On water Lab

"True Art" in the Science Laboratory!

Name _____ Period _____

Density is the mass/per unit volume of a substance. This lab is a time for you to have fun and learn about the density of liquids at the same time. The three colored liquids have different densities. They have a different number of molecules packed together. Remember, you must be patient or the colors will run together.

Materials:

1 test tube per/person on your lab team

Plastic cups (three per lab table)

Test tube rack

3 droppers or pipettes

Paper towels

Questions:

1. What is density?
2. What is the formula for density?
3. What are the four general properties of matter?
4. What is volume?
5. What is Mass?

Please make a quick sketch of your test tube in the space provided.
Please include the colors that are layered in your test tube.

_____ Name _____
_____ Period _____

Density is the mass per unit volume of a substance. This lab is a time for you to have fun and learn about the density of liquids at the same time. The three colored liquids have different densities. They have a different number of molecules packed together. Remember, you must be patient or the colors will run together.

Materials:
1 test tube per person on your lab team
Plastic cups (three per lab table)
Test tube rack

Critical Thinking and Problem Solving

1. You are given two samples of pure copper, one with a mass of 20 grams and the other with a mass of 100 grams. Compare the two samples in terms of (a) volume, (b) weight, and (c) density.
2. Explain why selling cereal by mass rather than volume would be fairer to customers.