

What is Density?

Summarizing Questions

1. Let's make some predictions of how densities of material affect whether they can sink or float in water.
 - a. If you have two objects of the same volume, but one weighs more than the other, which has a greater density? Explain your reasoning.

 - b. If you have two objects of the same weight, but one is larger (greater volume) than the other, which one has a greater density? Explain your reasoning.

 - c. Look at one of your cubes from the initial ideas. If you cut it in half, would the mass have changed? If so, by how much?

Has the volume changed? If so, by how much?

Has the density changed? If so, how do you know?

Would the density change if you cut it into quarters? Eighths? Sixteenths? Why or why not?

2. In your own words, how would you describe density (don't just say mass divided by volume!!)?