

Hints . . .

Mass is the amount of matter in an object. Weight is a measure of the force of gravity on an object. On Earth, mass is equal to weight.

Volume is the amount of space an object takes up.

- Use a graduated cylinder to measure the volume of a liquid
- To find the volume of a solid cube, multiply length x width x height
- Use water displacement to find the volume of an irregularly shaped solid figure. Record the volume of water before and after you put the item in the water. The volume of the irregularly shaped solid figure will be the difference between your two measurements.

Density is a measure of how much matter is in a unit of volume. Calculate the density of an object this way:

$$\text{Density} = \text{mass divided by volume}$$

If an object has a density less than 1 gram per cubic centimeter, it will float in water. Will any of your objects float in water?

Remember to use the correct units!