Density: property of matter that measures mass per unit of volume

Density of water is 1g/mL

If an object floats in water it has a density less than water.

If an object sinks in water it has a density greater than water.

If an object is floating in water, it has the SAME density as water



Describe the density of these objects:

Less than water

Same as water

Greater than water

The density of an object always remains the same! 1 drop = 1 puddle = 1 lake of water of water of water I have a same! 1 drop = 1 puddle = 1 lake of water of water

How to find density?

Find the Mass of the object using the triple beam balance to the nearest 0.1 g.

Find the Volume:

A regular shaped object, Find the Length X Width X Height to the nearest 0.1 cm³.

OR

An irregular shaped object, Water displacement:

A known amount of volume of liquid, place object into liquid, observe how much the volume increases, subtract new volume from old volume, then you have the volume of the object.

Measured in mL

Densityg/mL or cm³= Mass/Volume
Divide the Mass (g)/ Volume (mL or cm³)

Density of a substance never changes!

If you cut an object in half the density

Remains the SAME.

Density = Mass (g)
Volume (mL or cm)



Mass: 8.0 g

Volume: 4.0 cm³

Density: 2.0 g/ cm³

Mass: 4.0 g

Volume: 2.0 cm³

Density: 2.0 g/ cm³

