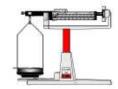
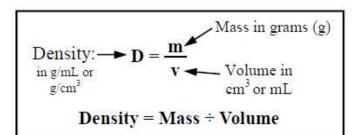
Measuring Density

Period:

The density of an object is defined as how compact it is. To find an object's density, you must measure its mass and volume.



Measuring the mass of a solid is simple with a balance scale.

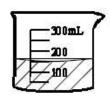


Mass of a Liquid

You can't measure a liquid by putting it on a scale. You must measure it while it is inside a container.







After (with liquid) mwith fluid = 450 g

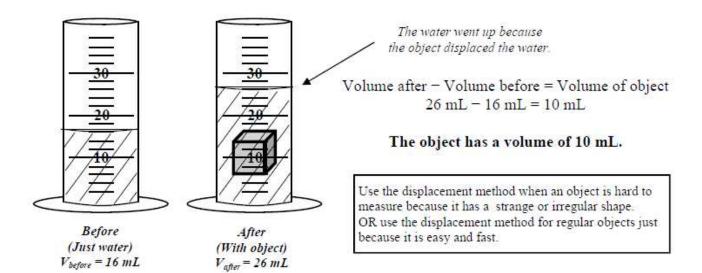
The beaker has more mass afterwards, since it has a liquid in it.

Mass with liquid – Mass empty = Mass of liquid 450g - 300 g = 150 g

The liquid has a mass of 150 g.

Displacement Method

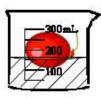
The displacement method allows you to easily and quickly measure the mass of an object by measuring how much water it displaces.

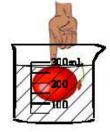


Floating Objects

If an object floats, it is necessary to submerge it, push it into the water in order to use the displacement method to find its volume.

The object floats, so you can't find its volume easily.





Push the object into the water until the top of it is at the top of the water Sinking an object—
If an object is hollow and has a water tight lid you could fill it with a denser object and sink it. Be sure to take the mass of the empty container to find its density, though.

