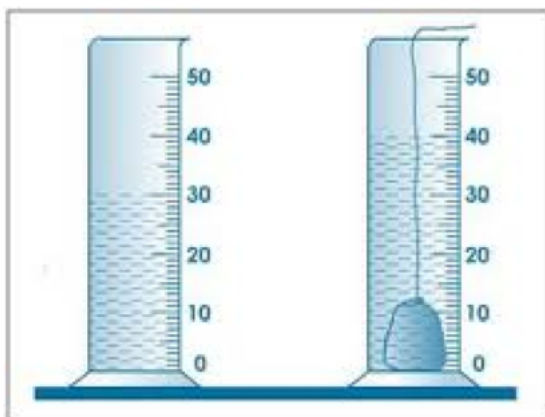


Finding the density of irregular objects

Inquiry activity

The density of irregular solids can be found by checking how much water they displace when immersed in water.



Record the initial volume of water in the measuring cylinder. Then immerse the object and record the new volume.

Activity

Find the densities of the solids provided by using the measuring cylinder.

Object	Mass/g	Initial volume, v_1/cm^3	Final vol, v_2/cm^3	Vol of solid $(v_1 - v_2)/\text{cm}^3$	Density = $\text{mass}/\text{volume}$

A second method for finding density is also available using Eureka cans.



Measure the increase in volume once the object is immersed.

Use this method to find the density of the objects used above

Object	Mass/g	Volume=vol of water collected from eureka can/cm ³	Density/g/cm ³

Compare the two methods in terms of accuracy, ease of use and efficiency.