

MEASURING DENSITY

A Step-by-Step Guide

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$



STEP 1 Measure the Mass

Use a balance to record the mass of the object.



STEP 2 Determine the Volume

Fill a measuring cylinder with water and note the starting level.



STEP 3 Submerge the Object

Gently lower the object into the water and observe the new level.



STEP 4 Calculate the Volume



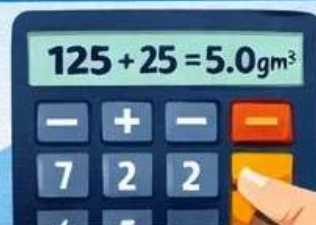
Volume = New Level – Initial Level

$$85 - 60 = 25 \text{ cm}^3$$

STEP 5 Calculate the Density

Use the formula:

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$



Density =
5.0 g/cm³

STEP 6 Record Your Result

Write down your final density in your results table.



Eureka Can for
regular shapes



Archimedes' Principle
for irregular shapes