

## IGCSE Physics

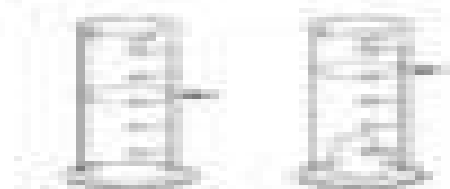
### Volume, Density and Mass

**Volume (cm<sup>3</sup>)** – the amount of space an object occupies

#### How to measure volume

- 1. **Use Liquid** – use measuring cylinder and read the volume directly
- 2. **Use Regular Solids** – calculate using the objects dimensions:
  - Cylinder: height  $\times$  width  $\times$  length
  - Square: 4<sup>th</sup> of 1 cm width<sup>2</sup>
  - Cylinder:  $\pi \times \text{radius}^2 \times \text{height}$
- 3. **Use Irregular Solids** – use the displacement method

**Displacement method** – place a cylinder of water in a measuring cylinder and measure the volume. Then add the object into the water and measure it again. The volume of the object is the difference in volume. (Fig)



Initial Volume = 50cm <sup>3</sup>
Final Volume = 60cm <sup>3</sup>
Object <sup>1</sup> = 60cm <sup>3</sup> - 50cm <sup>3</sup>
Object Volume = 10cm <sup>3</sup>

**Density (g/cm<sup>3</sup>)** – mass per unit of volume

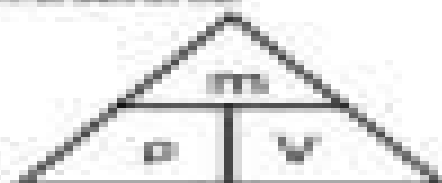
**Relative Density** – the ratio between the density of that substance and the density of water in that medium

**Archimedes** – a philosopher of the amount of liquid present in an object as well as the characteristics which make things fly through

The calculation of volume by volume =  $\frac{\text{mass}}{\text{density}}$

The calculation of density is density =  $\frac{\text{mass}}{\text{volume}}$

The calculation of mass is mass = density  $\times$  volume



**Density of air** – 1.28 kg/m<sup>3</sup>

**Density of water** – 1000 kg/m<sup>3</sup>

# Igcse Study Guide Physics

**M Mark**



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