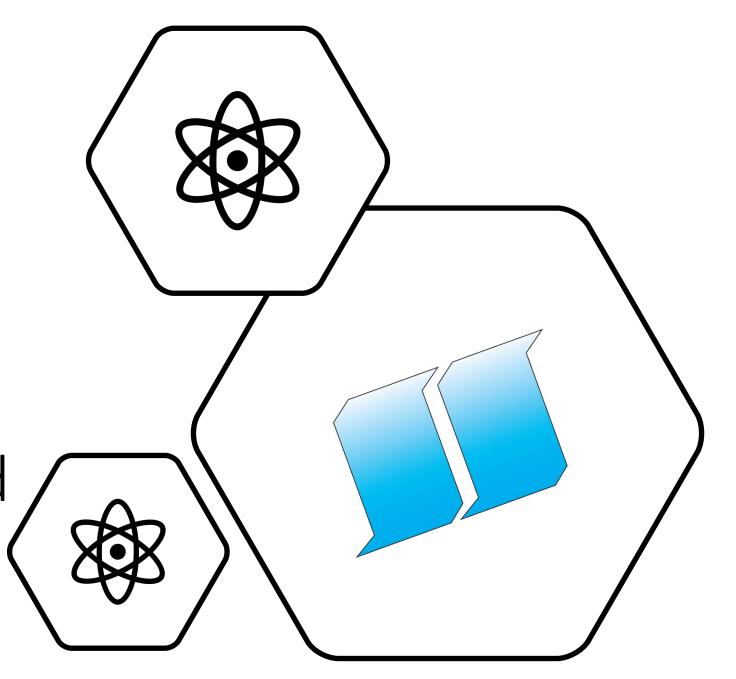


Paper 1 (combined)

Density Activity 1

regular shaped objects





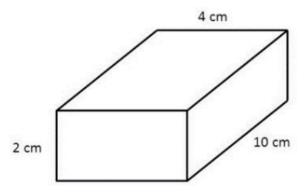
Paper 1

Density

Activity 1 A regularly shaped object

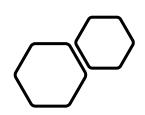
- 30 cm ruler in mm
- digital balance
- a selection of regularly shaped objects
- 1. Measure the length, width and height of the object using the ruler
- 2. Calculate the volume of the object using volume = length x width x height
- 3. Measure the mass of the object using the balance
- 4. Calculate the density using density = mass / volume
- 5. Repeat for the other regular objects

Regular shaped object	Length in cm	Width in cm	Height in cm	Volume in cm³	Mass in g	Density in g/cm³



Volume of this rectangular solid = 4 cm x 2 cm x 10 cm = 80 cm³

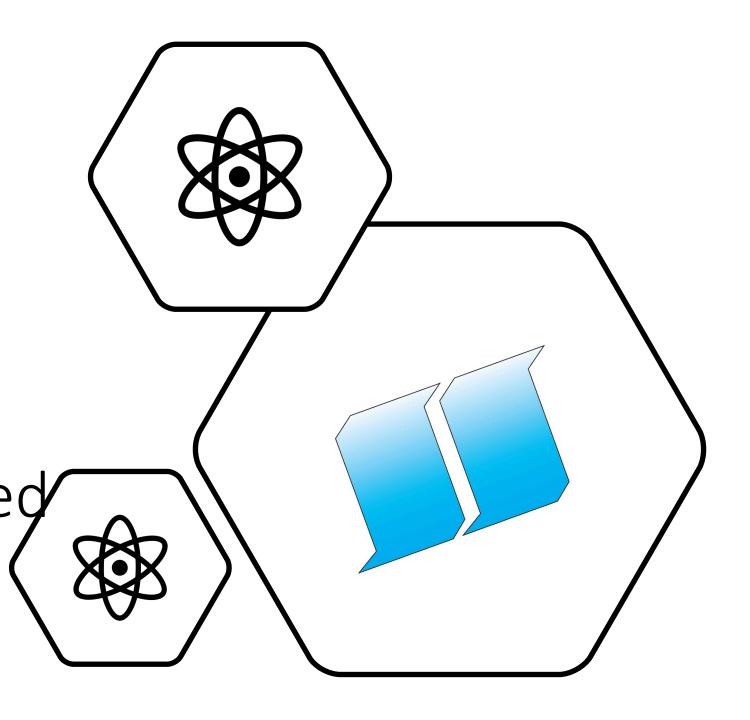




Paper 1 (combined)

Density
Activity 2
irregular shaped





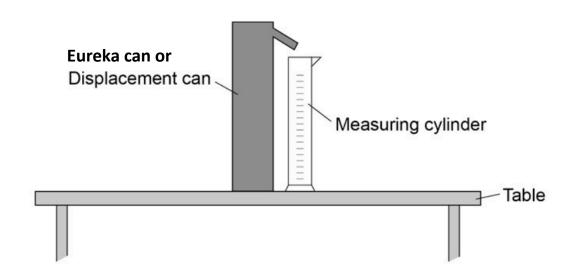


Paper 1

Density

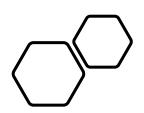
Activity 2 An irregularly shaped object

- a digital balance
- a displacement (eureka) can
- measuring cylinder
- a beaker of water and an extra empty beaker
- a selection of irregularly shaped objects
- 1. Fill eureka with water and allow excess water to drain
- 2. Place empty measuring cylinder under spout of can
- 3. Submerge object in can and collect displaced water
- 4. Record the volume of the displace water which is the volume of the object
- 5. Measure the mass of the object using the balance
- 6. Calculate the density using density = mass / volume
- 7. Repeat for the other irregular objects



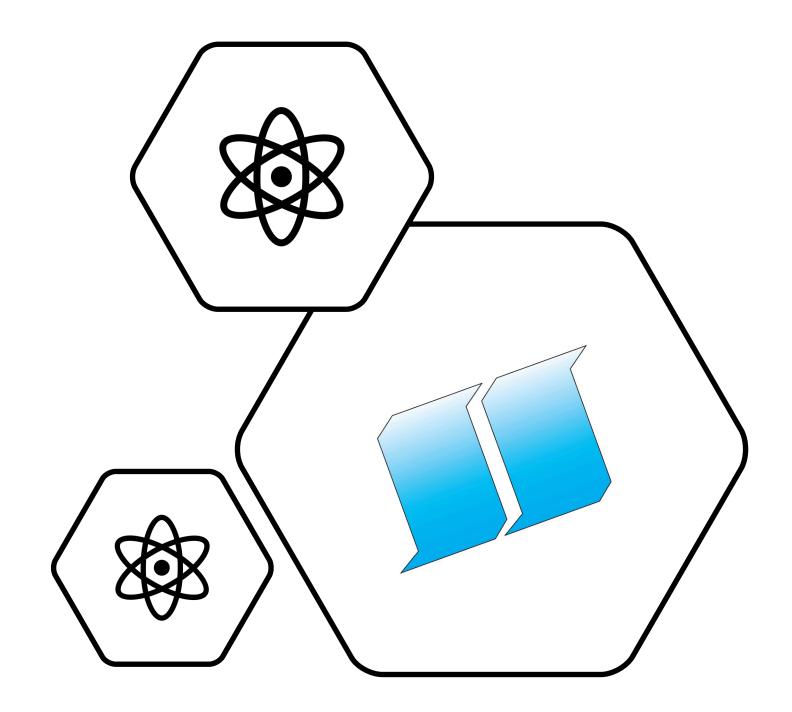






Paper 1 (combined)

Density Activity 3 Liquid





Paper 1 Density

Activity 3 A liquid

Measure the volume of the liquid using a measuring cylinder and the mass by pouring it into a beaker on an electronic balance that has been zeroed. The density is calculated using density = mass / volume

