



Density of Metals

1. What is density?
2. Define the formula for density:

Density of different Metals:

- Brass: 8.4-8.73 g/cm³
- Copper: 8.96 g/cm³
- Aluminum: 2.7 g/cm³
- Steel (Iron): 7.75-8.05 g/cm³
- Lead: 11.34 g/cm³
- Zinc: 7.13 g/cm³
- Silver: 10.49 g/cm³
- Gold: 19.3 g/cm³
- Bronze: 7.7-8.7 g/cm³
- Platinum: 21.4 g/cm³

Part 1: Density of a Cube (Method: Measurement)

Data/Observations	
Color	
Mass (g)	
Length of cube (cm)	
Width of cube (cm)	
Height of cube (cm)	
Volume of cube (cm ³)	
Determine the density of cube (g/cm ³)	
Actual density (g/cm ³)	

Part 2(a): Density of a Cylinder (Method: Measurement)

Data/Observations	
Color	
Mass of cylinder (g)	
Height of cylinder (cm)	
Diameter of cylinder (cm)	
Radius of cylinder (cm)	
Volume of cylinder (cm ³)	
Determine the density of the cylinder (g/cm ³)	
Identity of cylinder	
Actual density (g/cm ³)	

Part 2(b): Density of a Cylinder (Method: Water Displacement)

Data/Observations	
Color	
Mass (g)	
Initial volume in graduate cylinder (mL)	
Final volume in graduate cylinder (mL)	
Volume of metal cylinder (mL)	
Determine the density of the cylinder (g/cm ³)	
Identity of cylinder	
Actual density (g/cm ³)	