

Fill in the table and Create Scale Model Cubes

Object	Density (g/cm ³)	Density (kg/m ³)	Mass (g)	Volume (cm ³)	Length (cm)
Aluminum	2.7 g/cm ³	2700kg/m ³	16.2g		
Water	1 g/cm ³	1000kg/m ³	27g		
Gold	19.3 g/cm ³	19,300kg/m ³	1235.2g		
Wood	0.85g/cm ³	850kg/m ³	6.8g		
Sugar	1.6g/cm ³	1600kg/m ³	1.6g		

Color the Cubes an appropriate color, tape/glue them to a piece of computer paper and list each one's mass, volume and density underneath it.

First One: Aluminum

- mass = 16.2g
- Density = 2.7g/cm³
- Volume = mass / density
- $V = 16.2g / 2.7g/cm^3 = 8cm^3$
- The cube must have side lengths of 2cm each because $2cm \times 2cm \times 2cm = 8cm^3$

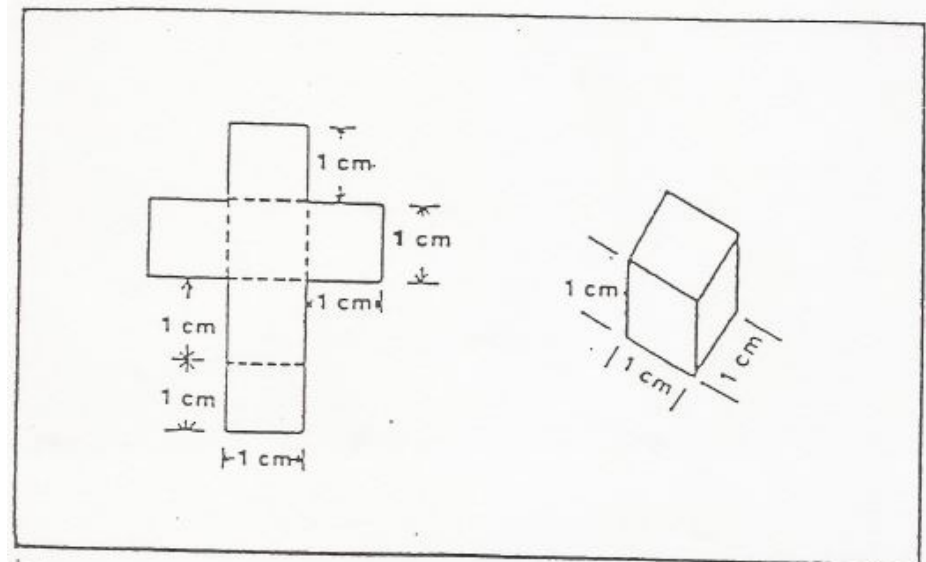


Figure 2: Opened-Up Cubic Solid