

Density Lab – Can you guess what the blocks are made of?

Directions:

1. Each person in your group will find the mass, volume, and density for the 6 blocks at your table.
2. Once you have data for 3 blocks, start comparing your data.
3. Did you get similar results for each block?
4. Make a hypothesis and share it with the class.
5. Measure the last 3 blocks.
6. Once you have the data for all 6 blocks, make your final decision and share with the class.

Object #	Mass (g)	Measure the block in cm			Volume (cm ³)	Density D=M/V (g/cm ³)	What is it?
		Length	Width	Height			

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Item	Density: g/cm ³
Copper	8.9
Brass	8.0
Aluminum	2.7
Polyvinyl Chloride	1.36 – 1.46
Sintra	0.48 to 0.54
High Density Polyethylene	0.94 to 0.98
Polypropylene	0.89 to 0.93
Acrylic	1.13 to 1.21

Group Number	Hypothesis	Final Answer	Correct Answer
1			
2			
3			
4			
5			