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Density of Solids Worksheet

Student Data Table(s)

	Length (cm)	Width (cm)	Height (cm)	Volume (cm ³)	Mass (g)	Density (g/cm ³)
Cube 1						
Cube 2						
Bar						

Post-Lab Questions

1. How do the densities of Cube 1, Cube 2 and the Bar compare?

- 2. From the data collected, are any of the three objects composed of the same material? How do you know this?
- 3. Use the density table below to identify what material each item is composed of.

Density of Common Substances (at 20 °C) g/cm ³							
Gold	19.3	Steel	7.87				
Mercury	13.6	Aluminum	2.70				
Lead	11.4	Cork	0.24				
Copper	8.92						

4. Once each object has been identified, use the following equation to determine the accuracy of your calculated density measurements. Use the equation list below.

Percent Error = $\frac{| \text{Calculated Density} - \text{Actual Density} |}{\text{Actual Density}} \times 100 = _$

5. What are some possible errors in your density calculations?