

Science Notebook Layout **DON'T COPY UNDERLINED TEXT**

Mrs. Aguirre's Webpage: <http://www.quia.com/profiles/caguirre>

Finding Density

DENSITY

$$\text{Density (g/cm}^3\text{)} \rightarrow D = \frac{m \leftarrow \text{Mass (g)}}{V \leftarrow \text{Volume (cm}^3\text{)}}$$

Density calculation:

Density = Mass/Volume

= ___g/ ___cm³

= ___g/cm³

Calculate all densities for cubes on other page using volume found above.

Round to nearest hundredth. Include all units as shown in example

<u>PVC:</u> D = Mass/Volume = ___g/ ___cm ³ = ___g/cm ³	<u>Lead</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³
<u>Aluminum</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³	<u>Brass</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³
<u>Pine</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³	<u>Copper</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³
<u>Acrylic</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³	<u>Steel</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³
<u>Oak</u> D = M/V = ___g/ ___cm ³ = ___g/cm ³	<u>Nylon:</u> D= M/V = 18.5g/ 15.625cm ³ = 1.184 g/cm ³

Introduction to Density 11/26/12

Which weighs more, a pound of feathers or a pound of bricks? Explain.

Data Table:

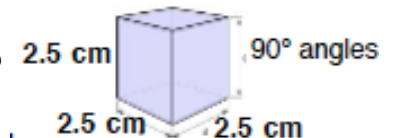
Item	Observations	Item	Observations
PVC	26.2 g	Lead	163.4 g
Aluminum	46.4 g	Brass	137.0 g
Pine	11.5 g	Copper	146.3 g
Acrylic	19.5 g	Steel	126.2 g
Oak	8.9 g	Nylon	18.5 g

For each item, write three observations- one qualitative and one quantitative. Under the chart, make a list:

How they are similar:

How they are different:

THE CUBES



The cubes are similar in:

and different in:

VOLUME: Regular shaped solid
FORMULA: Volume = L x W x H
 = ___ cm x ___ cm x ___ cm
 = 2.5 cm X 2.5 cm X 2.5cm
 = 15.625 cm³