Name _____ Lab Activity: Density Cubes

Date _____ Period _____

6) Identify the material that each cube is made from using the following table. Record your answer in **Table 1.**

Material	PVC	Nylon	Brass	Copper	Aluminum	Acrylic	Oak	Pine	Poplar	Steel
Density (g/cm^3)	1.39 - 1.42	1.13	8.0	8.9	2.7	1.16 - 1.19	0.60 - 0.90	0.35 - 0.60	0.35 – 0.50	7.6

Analysis:

1) If Mpg means miles that can be gotten per gallon of gasoline and Mph means miles that can be gotten in an hour. What does g/cm^3 (read as grams per centimeter cubed) mean? _____

_____

2) Which material has the most amount of matter? Explain your answer.

_____

_____

3) Which material has the least amount of matter? Explain your answer.

_____

_____

4) If one cm^3 is equal to one ml, calculate the density of a half liter bottle of water that masses 20g.

_____

_____

MAKE SURE YOU ANSWERED <u>EVERY</u> QUESTION.

KEEP THIS IN YOUR LAB NOTEBOOK!

Name _____ Lab Activity: Density Cubes

Date _____ Period _____

Materials:

- 1 Metric Ruler
- Lab Notebook
- Triple Beam Balance
- Patience

- **Procedure:**

Table 1

Cube Number	1	2	3	4	5	6	7	8	9	10
Height										
Width										
Length										
Volume										
Mass										
Density										
Identity										

1) Measure the Height, Width, and Length of a cube. Record this information in **Table 1.**

2) Using the Triple Beam Balance obtain the mass of the cube. Record this information in **Table 1.**

3) Calculate the Volume of the cube. (Remember that V=LxWxH) Record this information in **Table 1.**

4) Density is calculated like this:

Density = Mass of an object ÷ Volume of that object

Shorthand → D = M / V

5) Calculate the density of each cube. Record this information in **Table 1.**

Name _____ Lab Activity: Density Cubes

Date _____ Period _____

5) Create a **BAR** graph showing the densities of the objects.