Density ID Lab		Name	Period	

Identify substances by their density (and other characteristics). **Assigned items:**_____

1. Use the Density ID Lab Data Chart or use a ruler to make a Density ID Lab Chart. Include columns for these:

   1) Item # 2) Description 3) Mass 4) Volume (V = l X w X h) or ($V=\pi r^2 h$) or (V= rise in water level) 5) D=m/v 6) Density 7) Substance

2. Write ALL measurements in your chart as you measure and calculate the density of those items assigned to you.
   Notes: A. Do NOT use water displacement for blocks and cylinders. Use formulas. ASK about water for ??? Items.
   B. Radius = d/2 To measure radius, measure diameter and divide by 2.
   C. Use the metric units **grams(g), centimeters(cm) and milliliters(ml)**, for your measures.

3. From your calculated density and your description, identify & write the substance name. Defend your decision with 2 reasons.

Density of Substances Chart (Density varies due to environmental factors.)

Material	**Density(g/ml)(g/cm^3)**
Acetyl	1.42
Acrylic	1.17
Alcohol (Isopropyl)	0.79
Aluminum	2.7
Balsa (Wood)	0.2
Birch (Wood)	0.67
Brass	8-8.56
Chlorinated PVC(CPVC)	1.54
Copper	8.91
Coke/Regular Soda	1.04
Cork	0.24
Diet Coke/Soda	0.97
Gold	19.3
Lead	11.6
Lignum Vitae	1.28-1.37
Low desity Polyethylene(LDPE)	0.92
Magnesium	1.77
Maple (Wood)	0.77
Nylon	1.13
Oak (Wood)	0.6-0.9
Oil (Olive)	0.9
Phenolic	1.32
Pine (Wood)	0.35-0.6
Polyamide (Nylon)	1.15
Polypropylene	0.85-0.95
Polystyrene	0.9
Polyurethane	1.23
Polyvinylchloride (PVC)	1.37
Poplar (Wood)	0.35-0.5
PTFE(Teflon)	2.2
PVC	1.39-1.42
Steel	7.6

Bonus for using Balance Scales!! Ask!