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 = I X w X h) or (V=π r²h) 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.

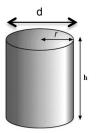
3. From your calculated density and your description, identify & write the substance name. Defend your decision with 2 reasons.

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!





