

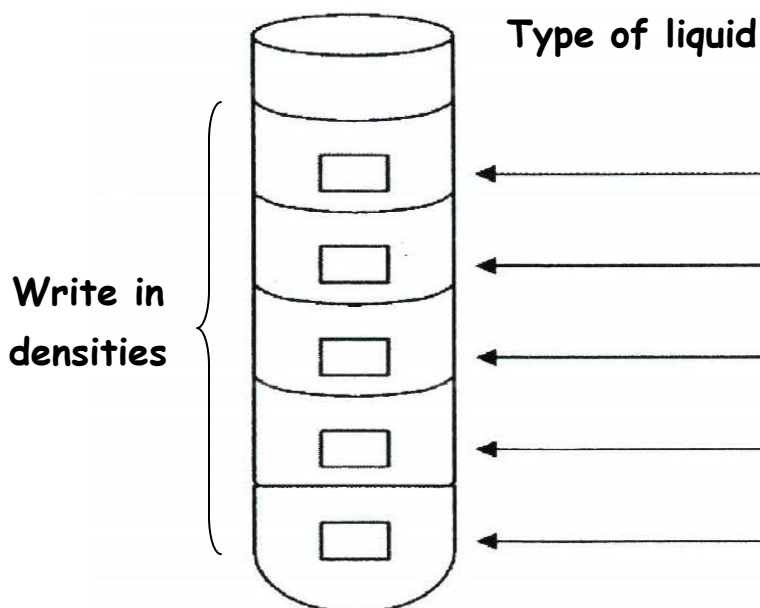
Liquid Layers!

Mission: 1) Calculate the density for each liquid and enter it in the data table.

Density Formula: _____

Liquid	Mass (g)	Volume (mL)	Density g/mL
Corn Syrup	23	15	
Alcohol (dyed green)	11	15	
Cooking Oil	14	15	
Water (dyed pink)	15	15	
Liquid Detergent	17	15	

2) Using the data from above, **identify** and **list** each liquid layer from most dense to least dense in the diagram below.



3) If we were to add a 6th layer of milk which has a density of 1.3 g/mL, where would it be listed on this column?

4) Calculate the densities for the substances below. After you have figured the densities of known substances, find the name below and write it in the last column:

MASS	VOLUME	Density	Substance
1) 12.42 g	6 mL		
2) 12.19 g	23 mL		
3) 11.766 g	5.3 mL		
4) 7.76 g	8 mL		
5) .783 g	.45 mL		

NAME and DENSITY	NAME and DENSITY
Carbon 2.22 g/mL	Magnesium 1.74 g/mL
Lithium .53 g/mL	Sodium .97 g/mL
Sulfur 2.07 g/cm ³	

5) The table below lists some solids and their densities. Arrange the substances, by name, in the order of their densities. Begin with the least dense and end with the most dense.

SOLIDS	DENSITY (g/cm ³)
Ashwood	0.65
Balsawood	0.37
Glass	2.6
Oak wood	0.68
Tin	7.18

Solids:

1. (Least dense) _____
2. _____
3. _____
4. _____
5. (Most dense) _____