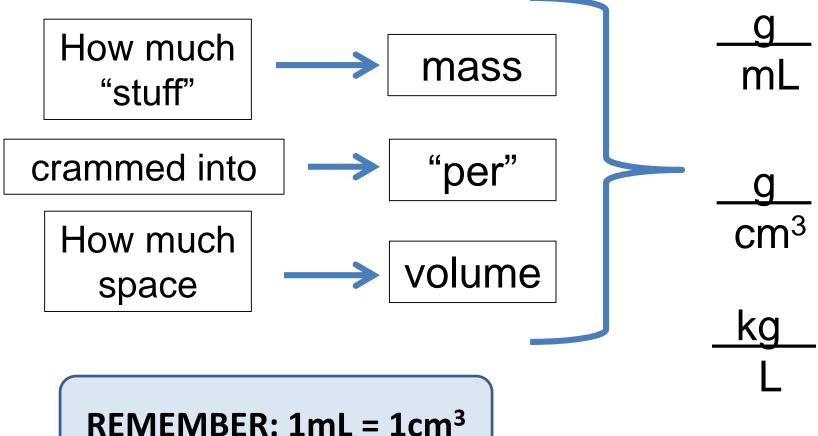
What is happening???



Density

How much "stuff" crammed into how much space?

Density Usually used for solid and gas

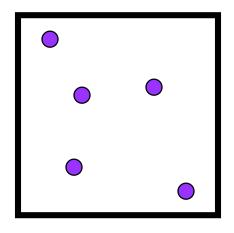


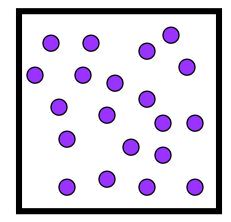
Etc...

Density Equation

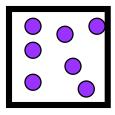
$$D = \underline{m}$$

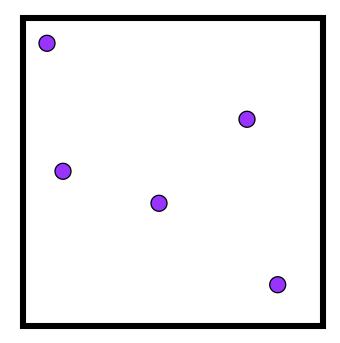
Which one is more dense?





Which one is more dense?





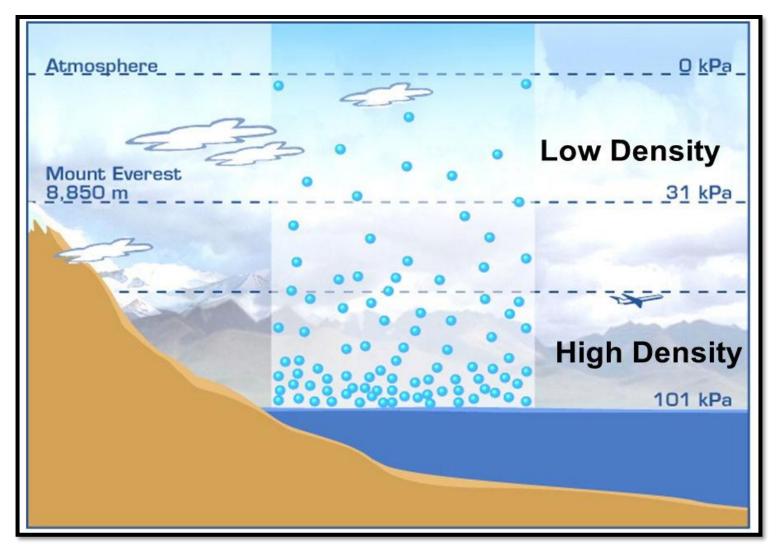
Density of Liquids Not Just Solids



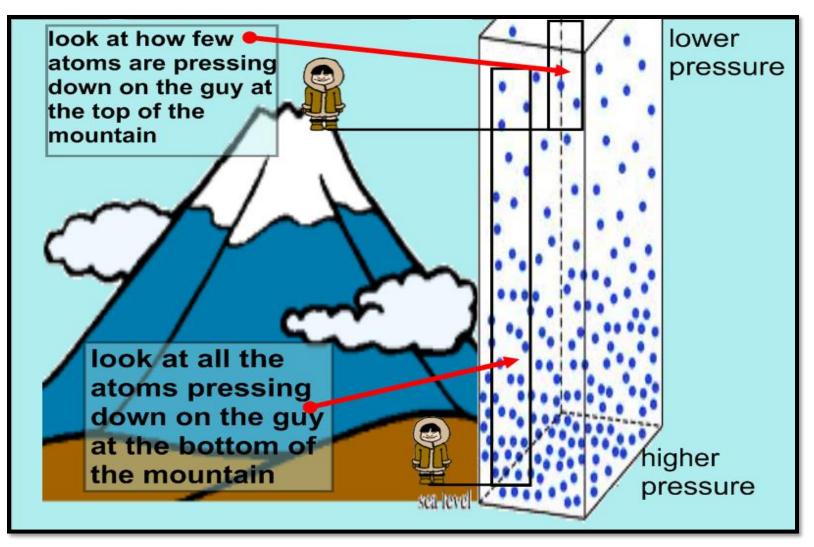
Density of Water

Memorize this!

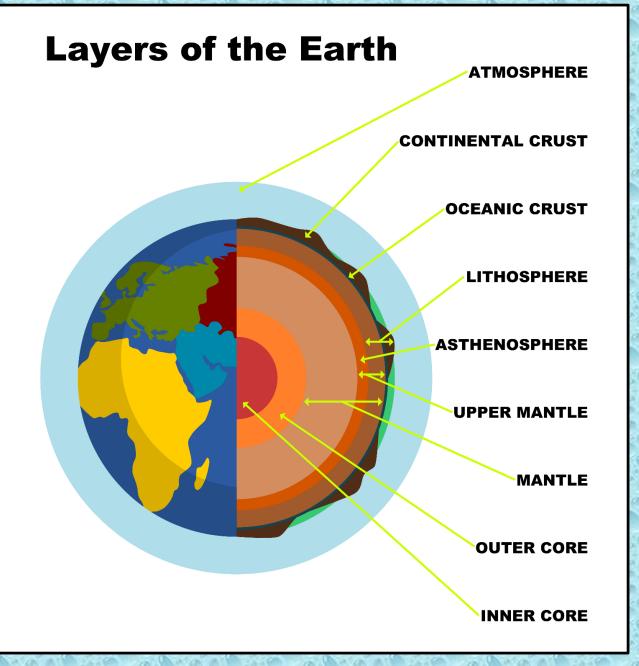
Density of Air – Air Pressure



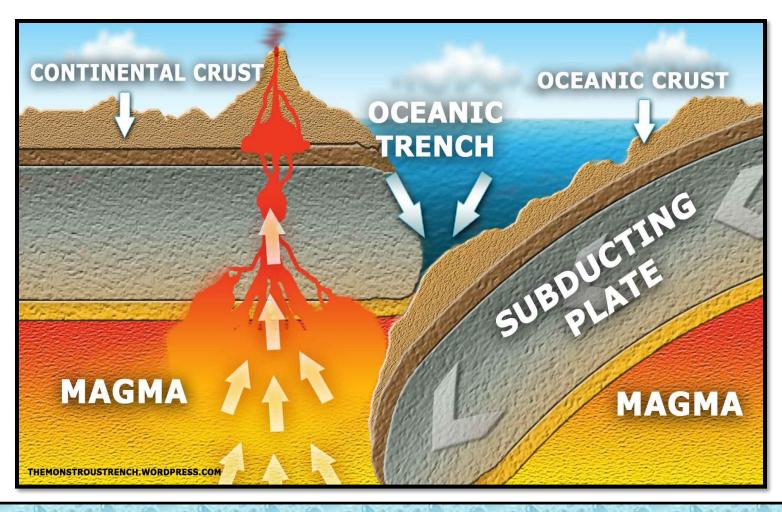
Density of Air – Air Pressure



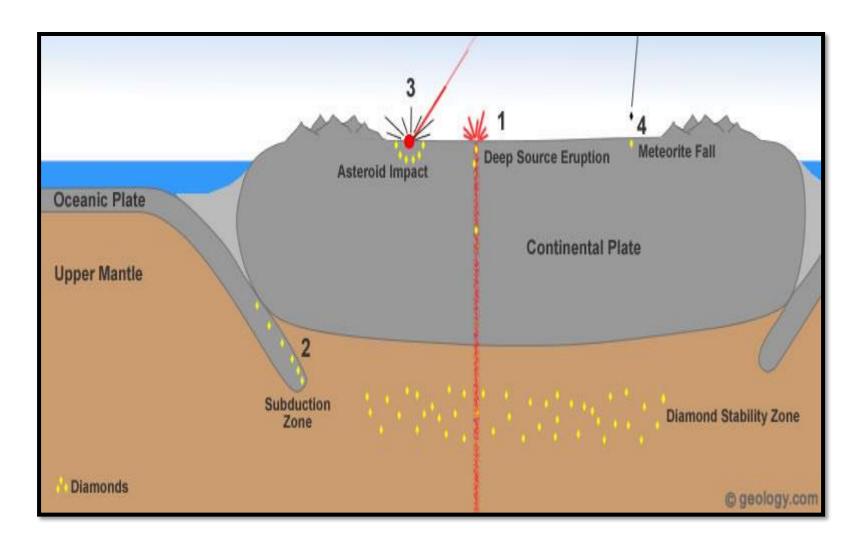
Different densities lead to earth having layers



Denser plate goes under less dense plate



One way diamonds get to the surface!



Japan - 2013



Japan - 2014



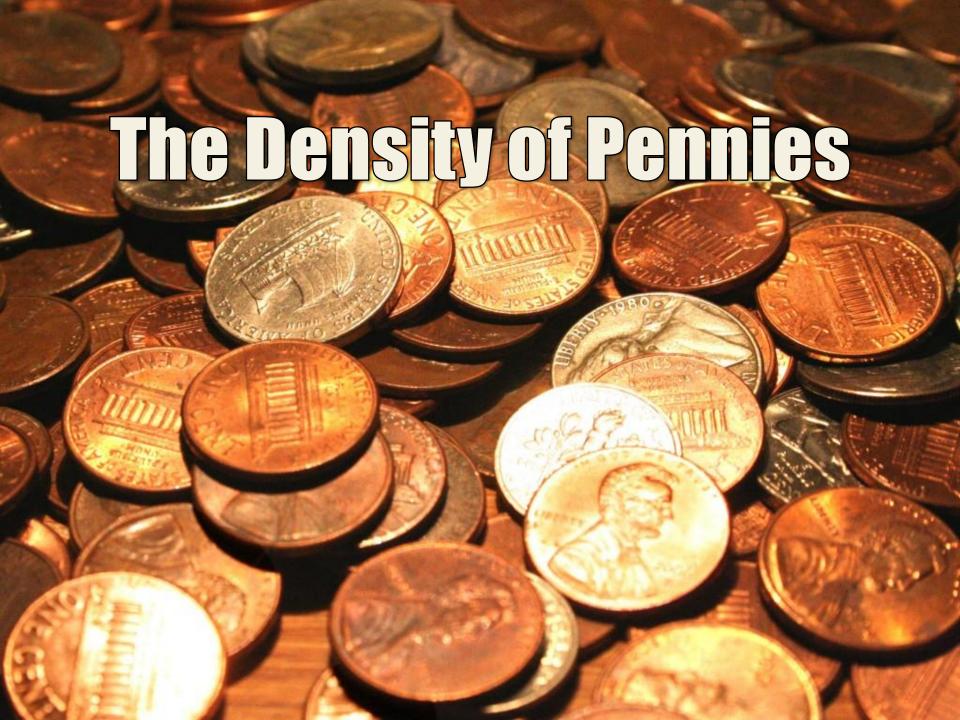
A new island!



Try these...

- 1) Jack has a rock. The rock has a density of 6.73 g/mL and a volume of 8cm³. What is the mass of the rock? (1 mL = 1cm³) 53.84 g
- 2) What is the volume of an object if the density is 1.45g/mL and it has a mass of 15.2 grams? 10.48 mL
- 3) What is the density of a block if it has the following dimensions and it weighs 45.8 g? 12 cm long, 3 cm tall, and 6.5 cm wide

0.196 g/cm³



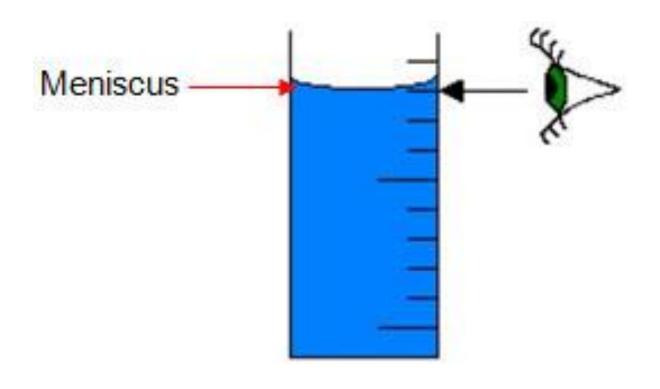
Not all pennies are the same!

Some are 95% copper and 5% zinc Some are 2.4% copper and 97.6% zinc



Using a Graduated Cylinder

Read from eye level at the bottom of the meniscus!!!!!!



GROUP#	PRE-1982 % error	POST-1982 % error
1		
2		
3		
4		
5		
6		
7		
8		

EA

Calculating % Error

$$\% Error = \frac{|Accepted Value - Your Value|}{Accepted Value} \times 100$$