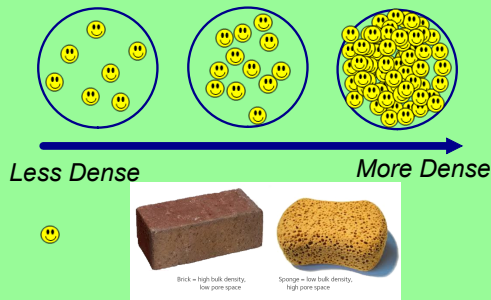


Density: a measure of the amount matter per unit volume of any substance.

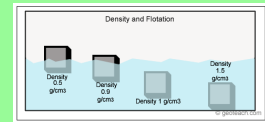
- * Basically how much stuff is crammed together
- * Can be used to identify an unknown substance



How do you know when one object is denser than another?



weigh it
hold it
see air holes in
impact from fall
squeeze it
put in water → float



Sep 17-8:20 AM

Sep 17-8:36 AM

How to Calculate Density

Formula: $D = m/v$

$D = \text{density (g/cm}^3\text{)} \text{ (g/mL)}$

$m = \text{mass (g)}$

$v = \text{volume (cm}^3\text{)} \text{ (mL)}$

$$\text{density} = \frac{\text{mass (g)}}{\text{Volume (cm}^3\text{)}}$$

Volume | mass

Practice: Calculate the density of the average Twinkie has a mass of 36.4 g and a volume of 101.6 cm³

g/cm³

Hypothesis: is an educated guess or prediction.

Complete sentence

"I think I predict I estimate
I believe I expect

I believe lead is denser than aluminum.

Sep 17-8:49 AM

Sep 18-11:03 AM