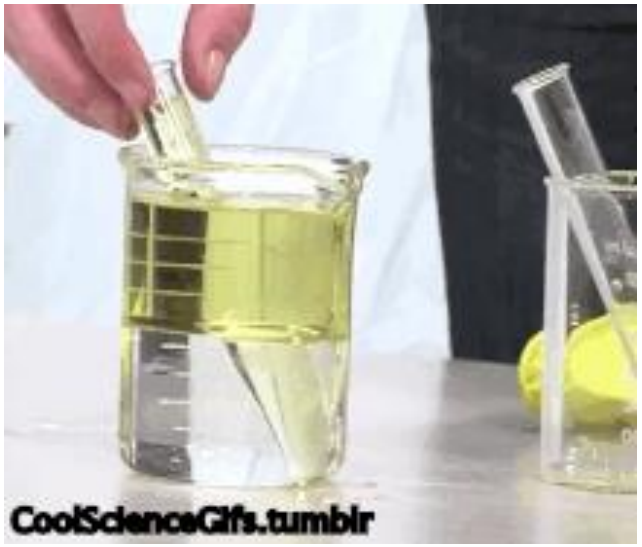
DO NOW:

Date: October 17, 2016

TEKS: 6.8B calculate density to identify an unknown substance

1. Get out your **Do Now sheet**
2. Write this week's homework in your agenda: **Density Calculation Practice Problems – due Friday**
3. Write this week's TEKS on your Do Now sheet for Week 9 *(Yes, I know they are the same. Yes, you have to write them again!)*
4. **Q?: Which is <u>less</u> dense: vegetable oil or water? Explain your reasoning!**



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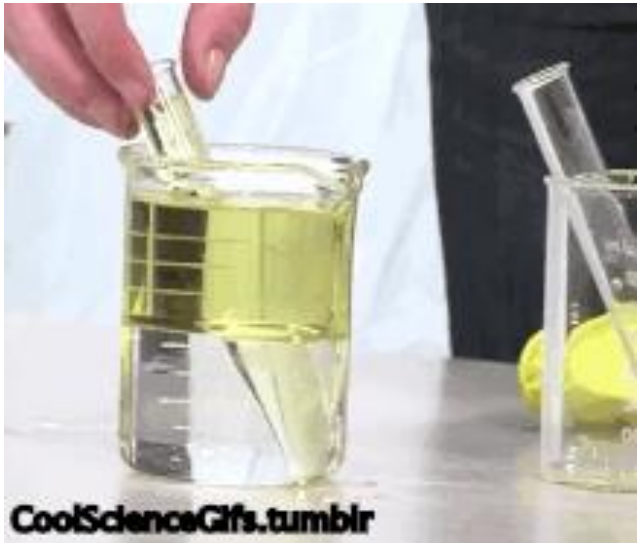
Vegetable oil is less dense than water because it floats on top of water



DO NOW:

Date: October 18, 2016

TEKS: 6.6B Calculate density to identify an unknown substance

1. Put your CB on your desk
2. **Q?: Draw and label the equipment we use to find the density of solids and liquids.**

To calculate density you divide the mass of your object by the volume

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

You can abreviate your formula using the first letter

$$d = \frac{m}{v}$$

Use the image of a heart to remember which item is your numerator and your denomenator

DO NOW:

Date: October 18, 2016

TEKS: 6.6B Calculate density to identify an unknown substance

1. **Q?: Draw and label the equipment we use to find the density of solids and liquids.**

Triple Beam Balance
measure mass (g)

Graduated Cylinders
measure volume (mL)

DO NOW:

Date: October 19 – 20, 2016

6.6B Calculate density to identify an unknown substance

1. We're working with water today. Put away anything you don't want to get wet!
2. **Q?: What would happen to aquatic life if water froze from the bottom up instead of from the top down?**

DO NOW:

Date: October 19 – 20, 2016

6.6B Calculate density to identify an unknown substance

Bottom feeders would get stuck in the ice at the bottom. Animals who eat the bottom feeders would go hungry. Aquatic plants would freeze in the water. Animals who eat the plants would go hungry. Fish and aquatic animals would be pushed to the surface as the water below them froze, leaving them susceptible to predation.

DO NOW:

Date: October 21, 2016

6.8B Calculate density to identify an unknown substance

1. Get out your Do Now sheet
2. **Turn in your Homework!**
3. **Q?: Find the density of an object with a volume of 10 cm^3 and a mass of 2g.**

   Use the density formula and show your work <u>with units</u>!

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}} = \frac{g}{cm^3} = \frac{g}{mL}$$

solids liquids

DO NOW:

Date: October 21, 2016

6.8B Calculate density to identify an unknown substance

1. **Q?: Find the density of an object with a volume of 10 cm^3 and a mass of 2g.**

   Use the density formula and show your work <u>with units</u>!

D = m/v

D = 2g / 10cm^3

D = 0.2 g/cm^3

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}} = \frac{g}{cm^3} = \frac{g}{mL}$$

solids liquids