

10/19/17

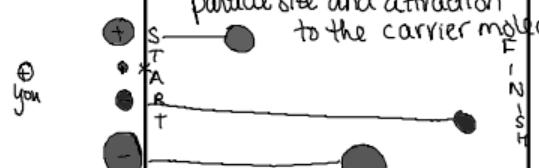
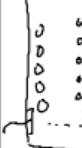
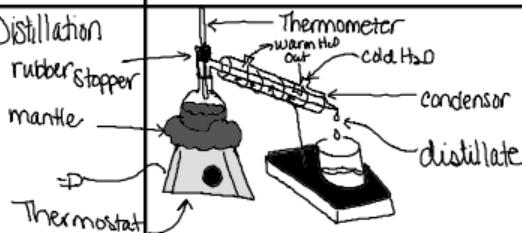
Matter Homework

- | | | | |
|-------|--------|--------|-------|
| 1. CP | 6. IP | 1. C | 6. C |
| 2. EP | 7. EP | 2. P | 7. C |
| 3. IP | 8. IP | 3. P+C | 8. P |
| 4. CP | 9. CP | 4. C | 9. P |
| 5. CP | 10. IP | 5. P | 10. C |

P.C. tore, crumpled, ink bleeding,
melted
C.C. coffee, dissolved sugar,
wick burned.

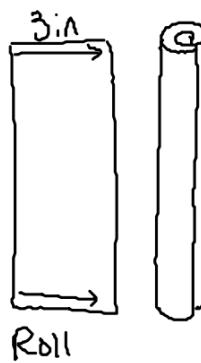
- | | |
|------------|-------------------|
| 1. soln. | 6. hetero./soln. |
| 2. element | 7. soln. |
| 3. hetero. | 8. compound |
| 4. hetero. | 9. element |
| 5. hetero. | 10. hetero./soln. |

SWAT: List + describe separation techniques

Method	Description	Basis of how it works
Visual Separation	 Visually identify differences + then use your hands to pick apart.	Visual differences 
Filtration	 Separation based on particle size and holes or pores.	particle size
Evaporation/ Crystallization	Separation that occurs when the liquid evaporates leaving pure crystals behind	 Crystal formation
Chromatography	<p>- Separation that occurs due to difference in particle size and attraction to the carrier molecule.</p> 	Size + charge of particles
Magnetism	Separation of particles based on magnetic properties	 Magnetic Character
Electrolysis	 Separation by running electrical current through a substance	Electricity used to break bonds
Distillation	 Separation by boiling point	<p>2 or more combined liquids are separated as one boils at a lower temperature than the others.</p>

Lab:

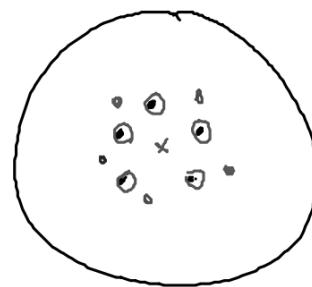
Create a wick out of a paper towel. - take
a 3inch piece of paper towel + roll it tightly.



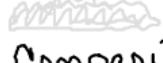
twist
top portion
tightly



coffee
filter

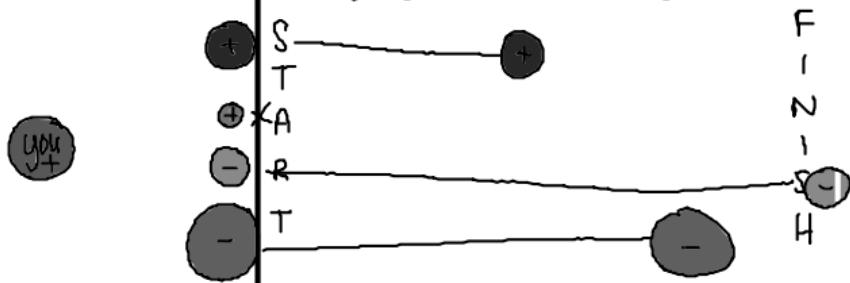


SWAT: List + describe separation techniques

Method	Describe	What it's based on:
Visual Separation	 <p>Visually identifying parts + then separating them by hand.</p>	Visual appearance 
Filtration	  <p>Separation by size of item in comparison to size of hole or pore</p>	Size of item
Evaporation/ Crystallization	<p>When the liquid evaporates Crystals of the substance form.</p>	 <p>Crystal formation</p>
Magnetism	Separation of mixed items by using a magnet	 <p>magnetic characteristic</p>

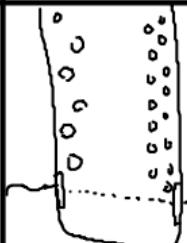
Chromatography

Separation based on how far a particle will be carried based on attraction + size

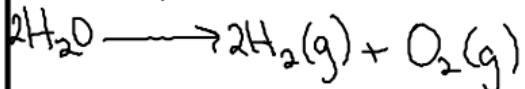


attraction + size

Electrolysis

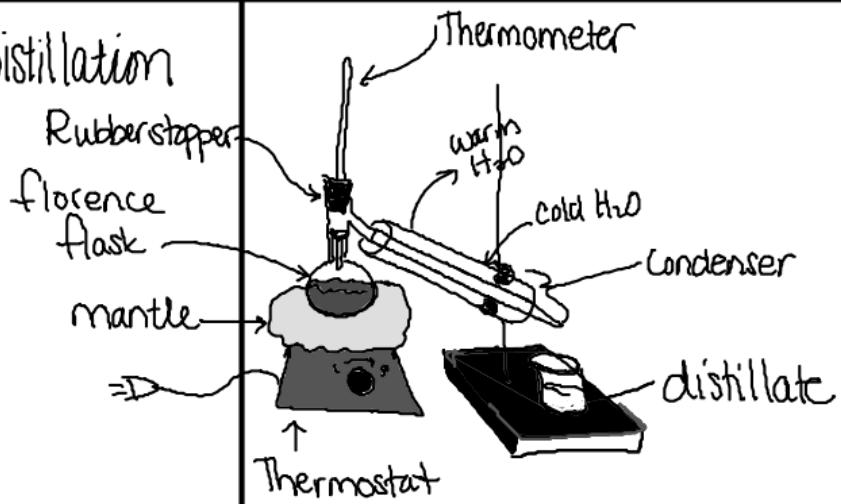


An electrical current is passed through a liquid to separate its pieces



electrical current

Distillation



boiling points

Separation of 2 or more liquids based on a difference in boiling point