



Honors Chemistry

Thursday August 27th 2015

Agenda

- * Warm Up: NONE
- * Finish Activity 1: K'Nex Stoichiometry
- * Start AND Finish Activity 2: Stoichiometry of Chemical Reactions

HOMEWORK

- * **Topic 1.1 Introduction to Particulate Nature of Matter & Chemical Change vocabulary**
- * DUE September 4th 2015
- * **Memorize the first 20 elements of the periodic table**
- * QUIZ September 3rd or 4th 2015

Activity 1: K'Nex Stoichiometry (pgs S2-S3)

- * Now you will demonstrate that mass is conserved in a chemical reaction (meaning it is not created or destroyed)
- * Weigh each individual 'atom' from your reactants - take the average mass in grams - record on data table 2 (pg S13)
- * Weigh the mass of the final product in grams - record in data table 2 (pg S13)
- * This should be EQUAL to the sum of your reactants!!!
- * Answer questions 5-6 on page S13

Activity 2: Stoichiometry of Chemical Reactions (pg S4)

* Now you will demonstrate that mass is conserved in a chemical reaction (meaning it is not created or destroyed) by carrying out an actual scientific experiment

* MATERIALS:

- | | |
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| * aluminum weighing dish | * rubber stopper, with pipets |
| * sodium bicarbonate (NaHCO_3) | * tubing |
| * hydrochloric acid (HCl) | * test tube (larger one) |
| * hot plate | * test tube rack |
| * syringe | * plastic tray |
| * tongs | * graduated cylinder (100mL) |
| * plastic weigh boat | * parafilm |
| * pipet | * balance |
| | * distilled water |

Activity 2: Stoichiometry of Chemical Reactions (pg S4)

- * **Follow your procedures STEP-BY-STEP and work quickly but meticulously and be very careful in your measurements and calculations.**
- * **Ask another group if you are unsure then ask me if you STILL are not sure!!!**
- * We are using HCl - Hydrochloric Acid - This can and will burn your skin and cause blindness if you were to get it into your eyes - **WEAR YOUR SAFETY GOGGLES AT ALL TIMES.**
- * Absolutely **NO HORSE PLAY** - If you goof off, you will be sent directly to SSO - no questions asked.
- * At the end of class (last 10 minutes) you **MUST** clean up your lab area and clean your equipment and check it all back in.

HOMEWORK

- * **Topic 1.1 Introduction to Particulate Nature of Matter & Chemical Change vocabulary**
- * DUE September 4th 2015
- * **Balancing Chemical Equations Worksheet**
- * DUE TODAY or August 26th 2015 (if we didn't get to it on Thurs/Fri)