Day3, Unit 7, February 17, 2016

Purpose:

How do we turn *unbalanced* reactions?

WARMUP:

"The Law of Conservation of mass says the total mass of a system is the same, before and after any change."

#1

For the reaction

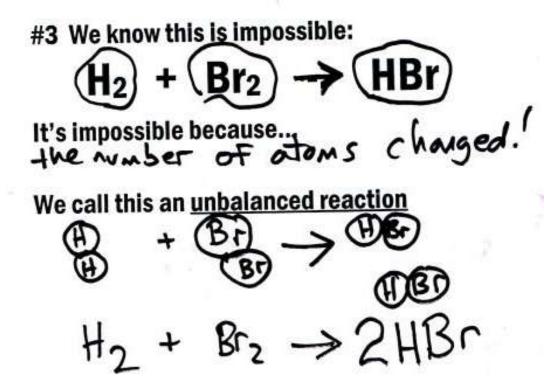
Stuff + Junk -> Things

The reactants are the substances on the left of the arrow.

The products are the substances on the right of the arrow.

#2 We know this is impossible:

100 + 100 Should equal 200.



We call this a balanced reaction.

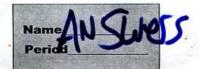
In <u>Balanced Reactions</u> the number of atoms *of each type of element* in the PRODUCTS and REACTANTS are equal.

Writing Unbalanced Reaction Equation

CAeMistry: http://genest.weebly.com

Stop in for help every day at lunch and Tues & Thuts after school





Write the unbalanced equations for the following chemical reactions. Write formulas (like H2O) and phases (like s, I, g, aq):

1) When dissolved barium chloride reacts with dissolved potassium sulfate in water, barium sulfate precipitate and aqueous potassium chloride are made.

Backgay+ K250yag) >> Ba Soys+ KC

2) When calcium chloride and potassium phosphate are dissolved in water they react to form aqueous potassium chloride and calcium phosphate powder.

CaCl2(40) + K3PO4(40) -> KCl(40) + Ca(PO4)2(5)



3) When sucrose (C₁₂H₂₂O₁₁) burns in oxygen, carbon dioxide, water and heat are

C12H22O11(5) + O2(9) ---

8) With the help of question #2 from yesterday, write an unbalanced chemical reaction for the burning of a candle. 11

Write the unbalanced equations for the following chemical reactions. Write formulas (like H2O)and phases (like s, I, g, aq):

When dissolved calcium hydroxide reacts with sulfuric acid (H2SO4), a precipitate of calcium sulfate, water, and heat are formed.

Ca(OH)2(99) + H2SO4 ->

Ca SOy(s) + H2O(L)

10) When sodium metal reacts with iron (III) chloride, iron metal and sodium chloride are formed.

Na(s) + FeCl3 -> Fe(s) + NaCl