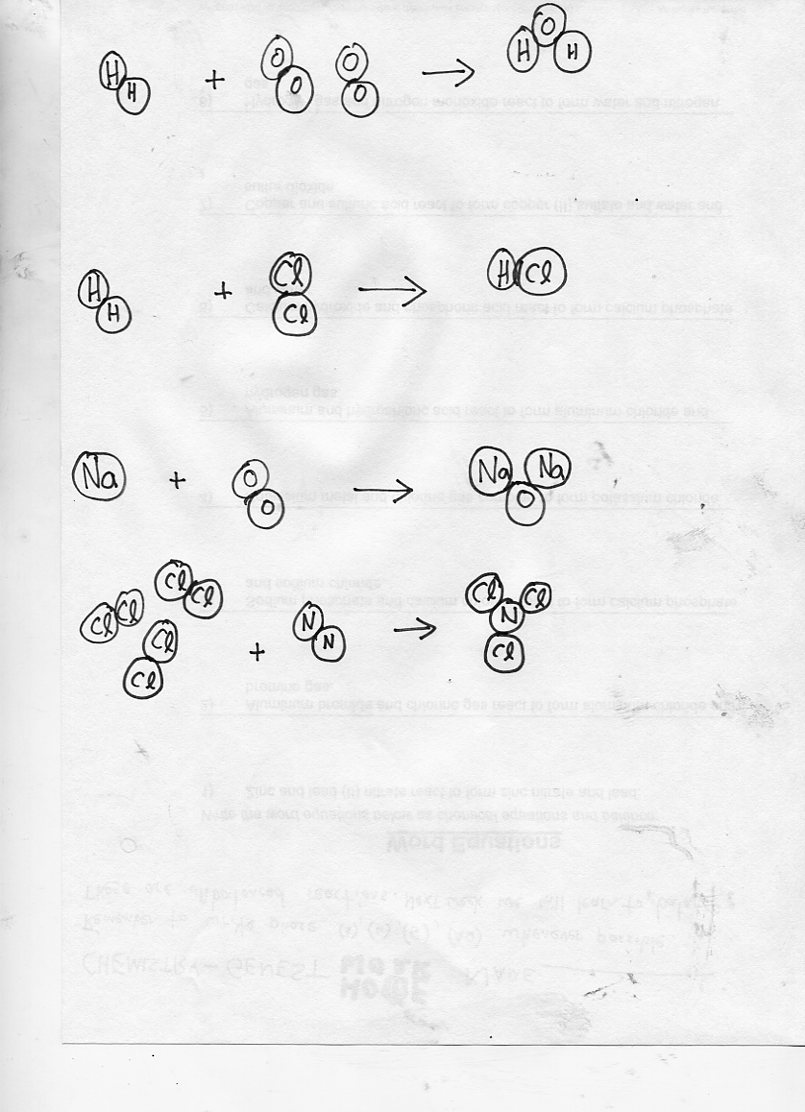
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| *Turning Unbalanced Reactions into Balanced Reactions*  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues &Thurs after school! | **Jean Michel Basquiat** | Name\_\_\_\_\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Add more cartoon atoms until they obey the Law of Conservation of Mass



|  |  |
| --- | --- |
| Don’t continue until you get a stamp here → |  |

**Write the unbalanced equations for the following chemical reaction.**

**Write formulas (like H2O) *and* phases (like s, l, g, aq):**

1. When wax (C22H44 ) burns in oxygen, carbon dioxide, water and heat are produced.

**Some of these are impossible because the mass of the Products is different from the mass of the Reactants.**

**If a reaction is possible, write POSSIBLE in the blank. Otherwise, write into the blank space what number of grams would make it possible.**

1. Hubba (16 grams) + Hubba (16 grams) → DoubleHub (**30 grams**) \_\_\_\_\_\_\_\_\_\_\_
2. Hiphip (3 grams) + Hooray (**14 grams**) → Cheer (17 grams) \_\_\_\_\_\_\_\_\_\_\_
3. Ping (1.5 grams) + Pong (**38 grams**) → Tick (17 grams) + Tock (22 grams)
4. Some of the reactions above were impossible because the mass of the Products was different from the mass of the Reactants. This violated the Law of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Data and Observations. Don’t write anything into the blank until you draw a diagram that is similar to what you drew on the front.**

1. \_\_\_\_\_H2+ \_\_\_\_\_O2→ \_\_\_\_\_ H2O

Diagram:

1. \_\_\_\_\_H2 + \_\_\_\_\_Cl2 → \_\_\_\_\_ HCl

Diagram:

**Write the unbalanced equations for the following chemical reactions.**

**Write formulas (like H2O)*and* phases (like s, l, g, aq):**

1. For the reaction Fe + Cl2 -> FeCl3 solve for the missing mass, using the law of conservation of mass in each case.
   1. If 44 grams of iron react with 65 grams of chlorine, how much iron(III)chloride should form?
   2. If 44 grams of iron react and 100 grams of iron(III)chloride form, how many grams of chlorine reacted?

**Please go to Lab Data Blog at http:genest.weebly.com to submit a famous figure from Black History. I’ll give extra credit if we use your choice!**