

Good Morning!!

Please grab your lab book from the front desk.

Please take a moment to check the homework on the side of the room.

Today:

- Finish lab: go to lab stations and measure your sample of silver.
- Record on data sheet.
- If time permits, begin calculations and questions.
 - Lab questions on class website.
- Begin review on Ch 10.3 and Ch 11.

Review Day

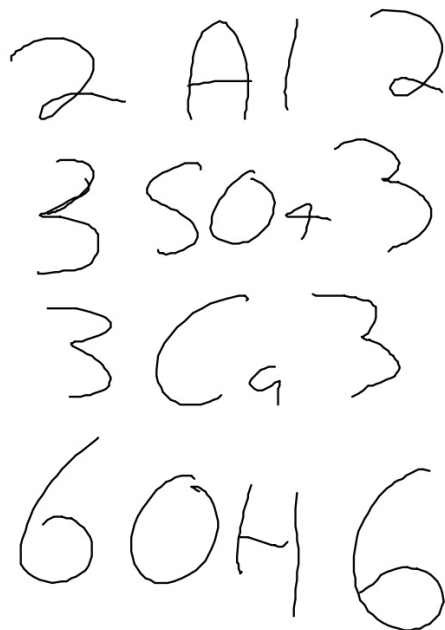
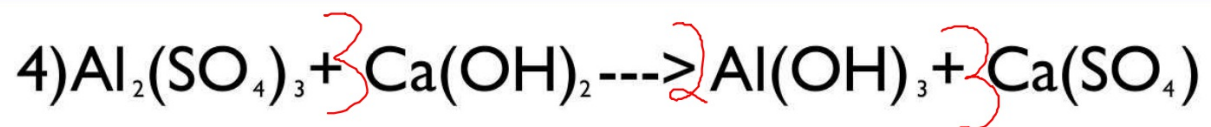
- 11.1: Balancing Chemical Equations.
- 11.2: Describing 5 types of reactions.
- 11.3 Predicting products

Finish Lab:

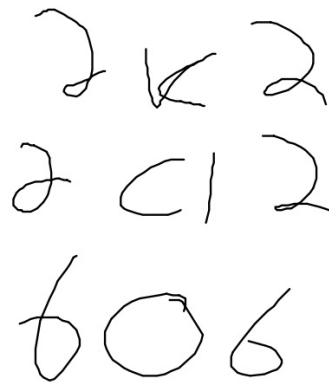
- Mass your silver in the beaker.
- Calculate your total silver yield.
- Finish questions on the back of the lab sheet.
- What you do not finish you will finish for homework.

11.1: Balancing Chemical Equations

- The rules are similar to algebra in that coefficients multiply.
- In chemistry we can change these coefficients to balance both sides of the equation.
- It may help to put all compounds in parenthesis.



5) Balance the following: $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$



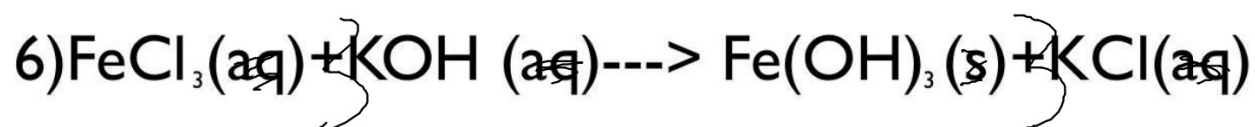
Decomp

11.2: Type of Reactions

- Combination/Composition Reaction:
 $A + B \rightarrow AB$. Ex: $Mg + O \rightarrow MgO$
- Decomposition Reaction: $AB \rightarrow A + B$.
Ex: $Ag_2O \rightarrow Ag + O$
- Single Replacement Reaction:
 $AB + C \rightarrow AC + B$
Ex: $Fe + CuCl_2 \rightarrow Cu + FeCl_2$

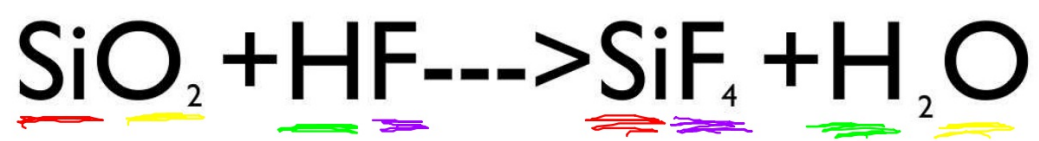
11.2 Continued

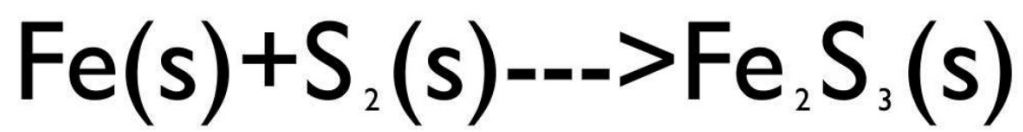
- Double Replacement Reactions: $AB + CD \rightarrow AC + BD$
Ex: $\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{CO}_3$
- Combustion Reactions (Fire!):
“CH” (fuel) + $\text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{heat}$
- These will always have similar chemical make-ups.



Classify that Reaction

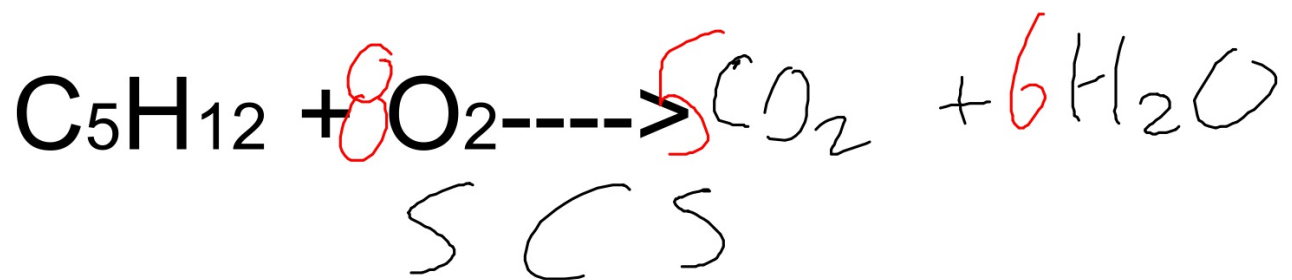
- Classify the following reactions.
 - Pay attention to the states of matter
- Is it balanced or unbalanced?
 - If unbalanced, balance it.
 - If ionic, write the net ionic equation.











12 H 12

$$16 \text{ O } 10 + 6 = 16$$

Predicting Products:

Look at the reactants.

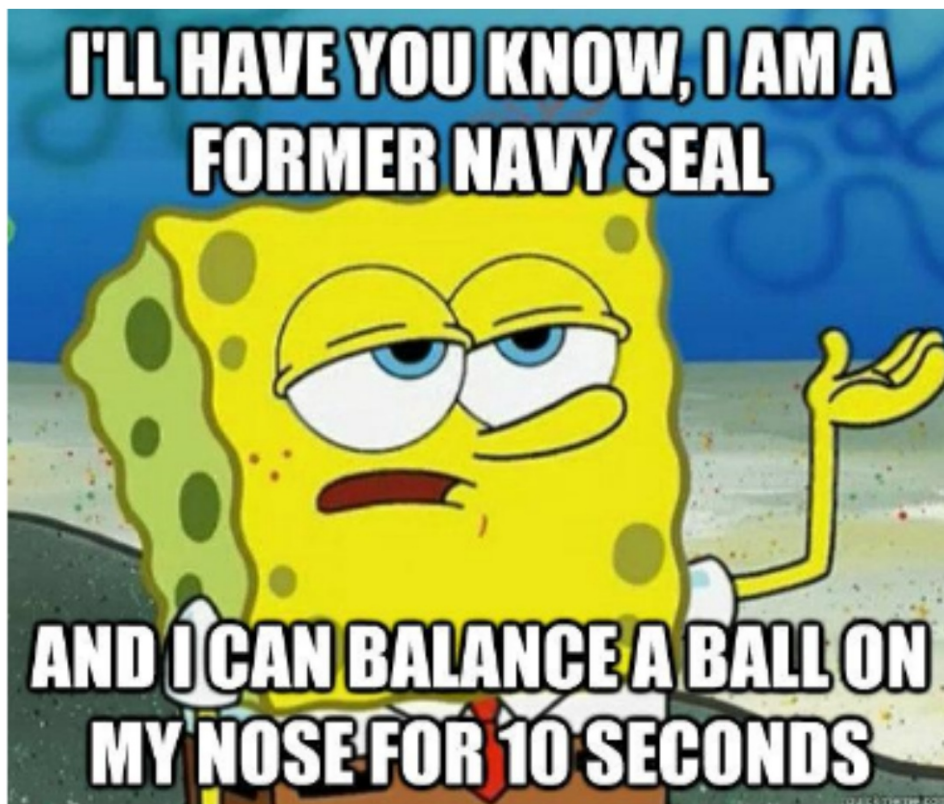
If there are any ionic compounds,
find their charges.

Predict what will switch.

Balance new ionic compounds.







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