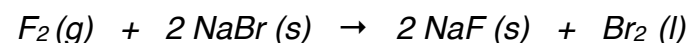
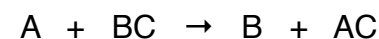


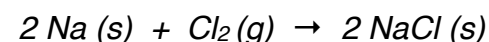
## REDOX REACTIONS:

Watch for an element on one side *alone*, but on the other side it is *buddied up with another element*. This implies the element went from a zero charge to either a positive or negative one. There **had** to be a transfer of electrons! These include the following subgroups:

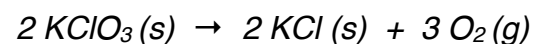
**Single displacement** An element and a compound swap one buddy to become another compound and an element.



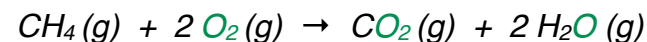
**Synthesis (Combination)** Two elements become a compound.



**Decomposition** One substance breaks into its elements.



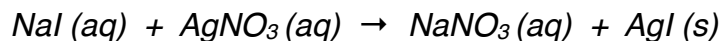
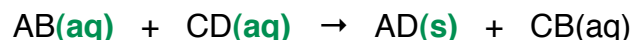
**Combustion** Here some substance reacts with oxygen ( $O_2$ ) to give products with O's stuck on them.



What to look for:

## PRECIPITATION REACTIONS:

Two aqueous solutions get together to form a solid. Often called **double displacement** because two compounds switch buddies.



## ACID-BASE REACTIONS:

One reactant has an  $H^+$ , the other an  $OH^-$ . Water is a product. (Another example of double displacement.)

