

## Shoulder Tap Reaction

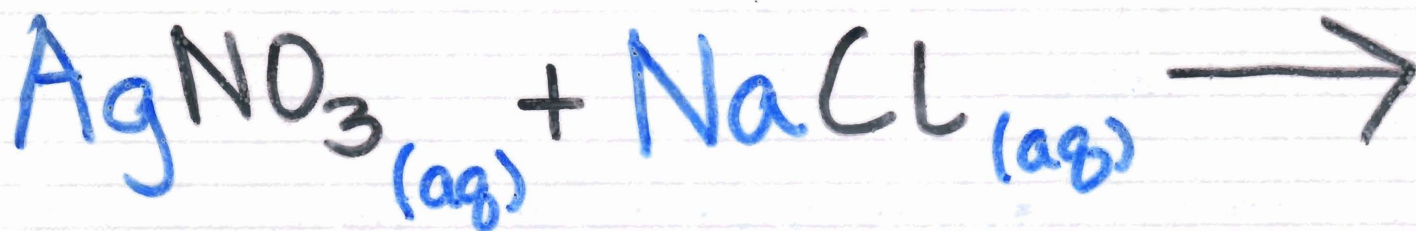


element + 1 compound  $\rightarrow$  1 compound + 1 element

"single replacement"

- 2 reactants  $\rightarrow$  2 products
- always produce an element (by itself or diatomic) + some thing going in
- elements going in aren't coming out
- molecule products always ionic
- two metals don't go together
- positively charged go w/ negatively charged
- two non-metals don't go together

# Ionic Flips



## Patterns:

"Double Replacement"

1. Ionic Bonds

2. All start aqueous (aq) but end with one solid and one aqueous solution.

3. Two Compounds Convert to two Compounds

4. Metals Flip

Unofficial Title:

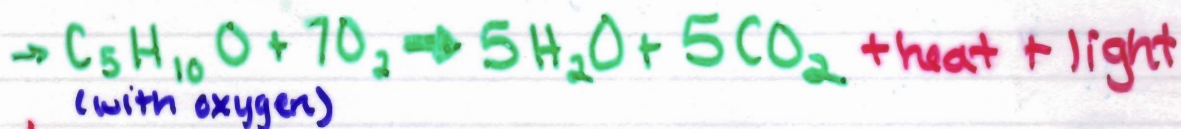
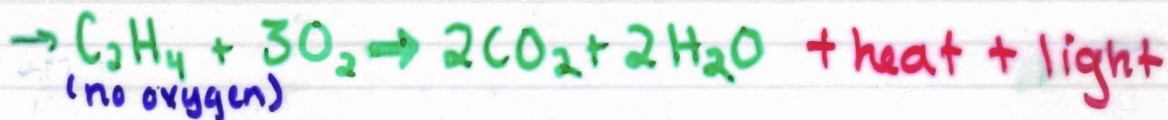
Sparkling Water Reaction

"Combustion"

List of Patterns:

- produce water and carbon dioxide
- one of the reactants always oxygen gas
- other reactants always carbon and hydrogen and sometimes oxygen as one molecule
- two reactants, two products

Sample Equation:



hydrocarbons

$\text{C}_8\text{H}_{18}$  = gasoline