

6.1a Types of Reactions

Science 10 Notes

Types of Reactions

There are several different types of reactions that you will need to be able to identify:

Synthesis (Combination) Reactions

Involve 2 reactants and 1 products

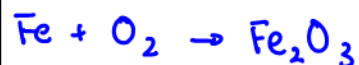
- General formula for reaction:



- Examples



* only one product



Decomposition Reactions

Involve 1 reactants and 2 products

- General formula for reaction:



- Examples



* only 1 reactant.

Single Replacement Reactions

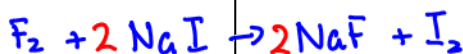
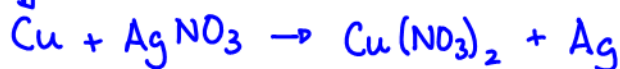
Involve 2 reactants and 2 products

When a reactive element and a compound react to produce compound and different element.

- General formula for reaction:



- Examples



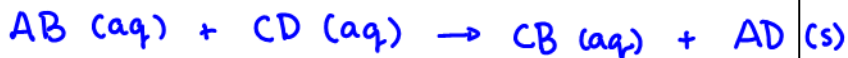
Double Replacement Reactions

Involve 2 reactants and 2 products

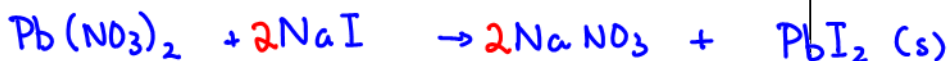
Involves 2 ionic compounds that react to produce 2 ionic compounds

One of the compounds forms a solid or precipitate

- General formula for reaction:



- Examples

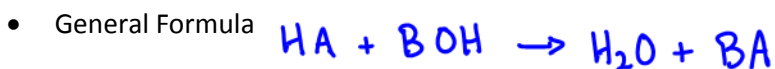


ionic compound
dissolved in water.
(aq) "aqueous"

Special Reactions

1. Neutralization (Acid Base) Reaction

- The reactants are an acid and a base.
- The products are a salt and water.



* look for
H — and —OH
in reactants

2. Combustion Reaction

- A reaction of a organic compound with oxygen to produce CO₂ and H₂O

- Example



* end with CO₂ + H₂O