

Types of Chemical Reactions

1. Combination reaction
2. Decomposition reaction
3. Displacement reaction
4. Double displacement reaction

Combination reaction

A reaction in which two or more substances combine to form a single substance is called combination reaction.



Homework

What do you observe when magnesium ribbon is burnt in oxygen ?

Decomposition reaction

A reaction in which a compound breaks up due to the application of heat into two or more simpler substances is called decomposition reaction.



The above decomposition reactions are carried out by heating , they are called **thermal decomposition reactions**.

Displacement reaction

A reaction in which a more active element displaces a less active element from a compound is called displacement reaction.



More active metal displaces hydrogen from an acid.



Double displacement reaction

(Reactions in which both the ions/radicals are exchanged)

It is a chemical reaction in which two compounds in their aqueous state exchange their ions or radicals to form new compounds.

Double displacement reactions are of two types:

a) Precipitation reaction :- Both the ions/radicals are exchanged and a precipitate is formed.



b) Neutralization reaction

Acid + Base \longrightarrow Salt + water

