Decomposition

A binary Compound decomposes into it's elements eg 2Nacl--> 2Na + Cl2

A metal Nitrite decomposes into a metal nitrite and oxygen gas 2NaN03 --> 2NaN02 + O2

A metal carbonate into a metal oxide and carbon dioxide gas Na2C03 --> Na20 + C02

A metal hydroxide decomposes into a metal oxide and water Zn(OH)2 --> ZnO + H20

- Single displacement occurs when an element is higher on the activity series
 If it it higher on the activity series it will displace that element if
- or no reaction will occur
- There is a activity series for halogens as well
- When an element displaces another you m

Double Displacement

- Double displacement
- Yearn's sheck if either products are aqueous no reaction will

Combustion

A chemical reaction in which a fuel burns in oxygen to produce combustion products

Complete Combustion

- When the products produced are carbon dioxide and water
- Occurs when there is a plentiful supply of oxygen
- CH4(g) + 2 O2(g) → CO2(g) + 2 H2O(g) + energy

Incomplete Combustion

- When the products may include carbon dioxide soot, carbon monoxide
- Occurs when there is a limited supply of oxygen.
- 2 C7H16(I) + 11 O2(g) → 14 CO(g) + 8 H2O(g) + energy

Concerns Related to Incomplete Combustion

- Soot particles from incomplete combustion are an inhalation hazard
- Soot particles are to small to be filtered by the respiratory tract and as a result these particles may penetrate deep into the lungs and irritate tissue
- Carbon Monoxide also produced is a silent killer