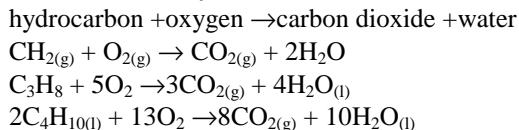
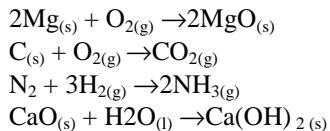


Chemistry AP: List of Reactions

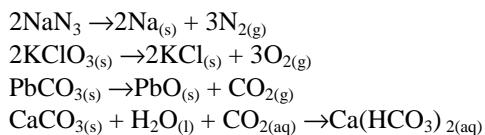
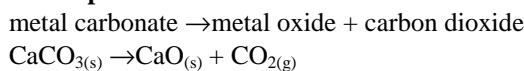
Combustion of hydrocarbon



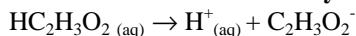
Combination



Decomposition



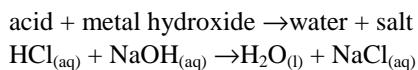
Ionization of Weak Electrolyte



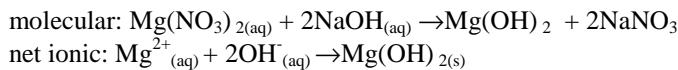
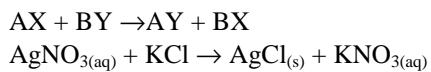
Ionization of Strong Electrolyte



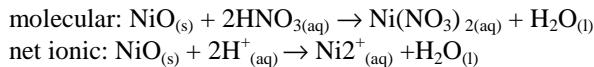
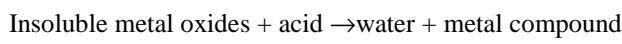
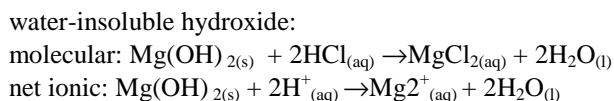
Neutralization



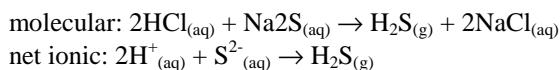
Metathesis Reactions



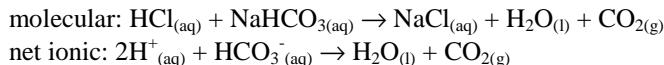
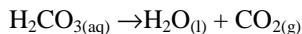
Formation of Weak Electrolyte or Nonelectrolyte



Formation of Gas

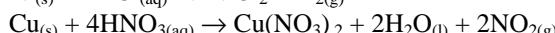
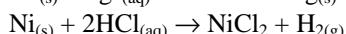
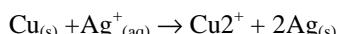
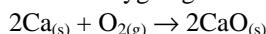


Carbonates and bicarbonates react to from carbon dioxide gas



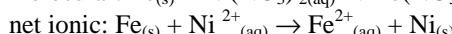
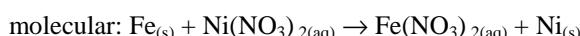
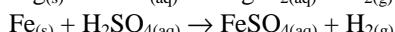
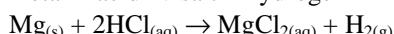
Oxidation and Reduction

metal + oxygen gas \rightarrow metal oxide



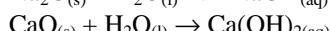
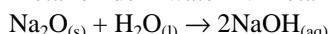
Oxidation of Metals By Acids and Salts

metal + acid \rightarrow salt + hydrogen

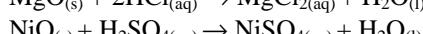
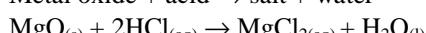


Metal Oxide (basic oxides)

Metal oxide + water \rightarrow metal hydroxide

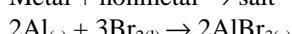


Metal oxide + acid \rightarrow salt + water

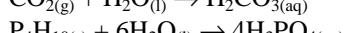
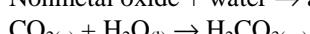


Nonmetals

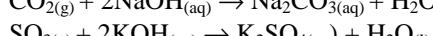
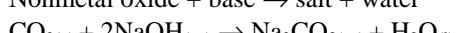
Metal + nonmetal \rightarrow salt



Nonmetal oxide + water \rightarrow acid

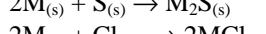
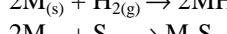
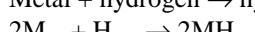


Nonmetal oxide + base \rightarrow salt + water

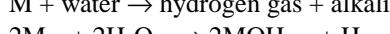


Alkali Metals (M = alkali metal)

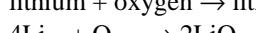
Metal + hydrogen \rightarrow hydrides



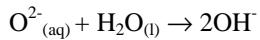
M + water \rightarrow hydrogen gas + alkali metal hydroxides



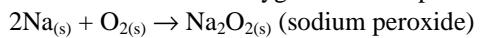
lithium + oxygen \rightarrow lithium oxide



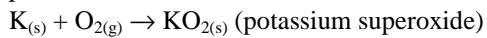
soluble metal oxides + water → hydroxide



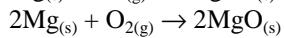
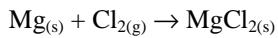
other alkali metals + oxygen → metal peroxide



potassium, rubidium, cesium

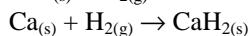
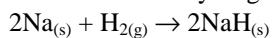


Alkaline Earth Metals

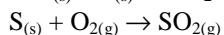
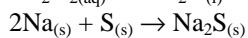
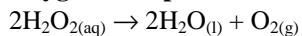


Hydrogen

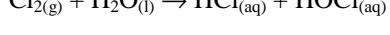
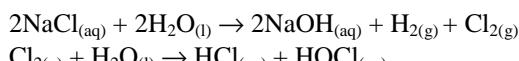
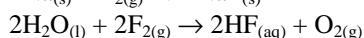
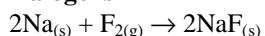
Active metals + hydrogen → solid metal hydride



Oxygen Group



Halogens



Hydrogen + halogen → hydrogen halide

