

Chemical Equations

1. Write and balance the chemical equations...
 - a) Aluminum metal reacts with iron (II) oxide powder to produce aluminum oxide solid and iron metal.
 - b) Aluminum sulphate solution and calcium hydroxide solution produce a precipitate of aluminum hydroxide and solid calcium sulphate.
 - c) Ammonia gas (NH_3) plus oxygen gas yields nitrogen monoxide gas plus water vapour.
 - d) Calcium hydroxide solution and carbon dioxide gas yields solid calcium carbonate and liquid water.
 - e) Aqueous iron (III) chloride and sodium carbonate solution yields aqueous sodium chloride and a precipitate of iron (III) carbonate.
 - f) Solid iron (III) oxide and carbon monoxide gas yields iron metal and carbon dioxide gas.
 - g) Magnesium carbonate solution plus aqueous hydrochloric acid (HCl) yields ???.
 - h) Silicon dioxide solid plus aqueous hydrofluoric acid (HF) yields solid silicon tetrafluoride plus liquid water.
 - i) Aqueous sodium hydroxide and carbon dioxide gas yields sodium carbonate solution and liquid water.

2. Balance the following chemical equations.

