

Chemistry 105-Fundamental Chemistry
Chemical Equations

Write balanced chemical equations for each of the following:

- A. Sodium hypochlorite produces sodium chloride and sodium chlorate when heated.

- B. Carbon disulfide burns in air to give carbon dioxide and sulfur dioxide.

- C. Metallic sodium reacts with water to produce sodium hydroxide and hydrogen.

- D. Metallic aluminum reacts with iron (III) oxide to produce metallic iron and aluminum oxide.

- E. Potassium chlorate may be heated to produce potassium chloride and potassium perchlorate.

- F. Calcium carbonate yields calcium oxide and carbon dioxide when heated.

- G. Elemental mercury and oxygen are produced when mercury (II) oxide is heated.

- H. Ammonia burns in oxygen to produce water and nitrogen dioxide.

- I. Manganese (IV) oxide reacts with hydrogen chloride to produce water, manganese (II) chloride, and elemental chlorine.

- J. Silica reacts with hydrogen fluoride to produce silicon tetrafluoride and water.

- K. Ammonia is prepared by the reaction of elemental nitrogen and hydrogen.