

Word Equations and Balancing

Name - _____ KEY _____

1.) Rewrite the following sentences, first as chemical word equations and then as chemical formula equations.

a.) Sodium carbonate reacts with hydrogen chloride to produce sodium chloride, carbon dioxide and water.

Sodium carbonate + hydrogen chloride → sodium chloride + carbon dioxide + water



b.) Octane (C_8H_{18}) burns by reacting with pure oxygen gas to produce carbon dioxide and water.

Octane (C_8H_{18}) + oxygen gas → carbon dioxide + water



c.) Sodium metal reacts with water to form sodium hydroxide and hydrogen gas.

Sodium metal + water → sodium hydroxide + hydrogen gas



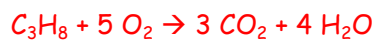
d.) Zinc metal reacts with copper (II) sulphate to produce zinc sulphate and copper metal.

Zinc metal + copper (II) sulphate → zinc sulphate + copper metal



2.) Rewrite and balance the following chemical equations.

a.) Propane (C_3H_8) reacts with oxygen gas to produce carbon dioxide and water.



b.) Calcium oxide reacts with hydrogen chloride to form calcium chloride and water.



3.) Balance the following chemical equations.

