Name : ---------- Date : ----------

Balancing Word Equations

Write the formulas of the reactants and products. Then, balance the equations.

A. carbon + oxygen → carbon dioxide

B. copper + silver nitrate → copper (II) nitrate + silver

C. zinc + copper (II) sulfate → Zinc sulfate + copper

D. mercury (II) nitrate + ammonium sulfide → mercury (II) sulfide + ammonium nitrate

E. iron (III) hydroxide → iron (III) oxide + water

F. water → hydrogen + oxygen

G. copper (II) nitrate + water → hydrogen nitrate + copper (II) hydroxide

H. phosphorus + oxygen → diphosphorous pentoxide

I. iron + hydrochloric acid → iron (II) chloride + hydrogen

J. sodium hydroxide + phosphoric acid → sodium phosphate + water

Name : ---------- Date : ----------

Balancing Word Equations

Answers

A. carbon + oxygen → carbon dioxide

$C + O_2 \rightarrow CO_2$

B. copper + silver nitrate → copper (II) nitrate + silver

$Cu + 2\ AgNO_3 \rightarrow Cu(NO_3)_2 + 2\ Ag$

C. zinc + copper (II) sulfate → Zinc sulfate + copper

$Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$

D. mercury (II) nitrate + ammonium sulfide → mercury (II) sulfide + ammonium nitrate

$Hg(NO_3)_2 + (NH_4)_2S \rightarrow HgS + 2\ NH_4NO_3$

E. iron (III) hydroxide → iron (III) oxide + water

$2\ Fe(OH)_3 \rightarrow Fe_2O_3 + 3\ H_2O$

F. water → hydrogen + oxygen

$2\ H_2O \rightarrow 2\ H_2 + O_2$

G. copper (II) nitrate + water → hydrogen nitrate + copper (II) hydroxide

$Cu(NO_3)_2 + 2\ H_2O \rightarrow 2\ HNO_3 + Cu(OH)_2$

H. phosphorus + oxygen → diphosphorous pentoxide

$4\ P + 5\ O_2 \rightarrow 2\ P_2O_5$

I. iron + hydrochloric acid → iron (II) chloride + hydrogen

$Fe + 2\ HCl \rightarrow FeCl_2 + H_2$

J. sodium hydroxide + phosphoric acid → sodium phosphate + water

$3\ NaOH + H_3PO_4 \rightarrow Na_3PO_4 + 3\ H_2O$