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Answers to QuickLab

a. $H_2 + Cl_2 \longrightarrow 2HCl$; synthesis

b. $2Mg + O_2 \longrightarrow 2MgO$; synthesis

c. $2C_2H_6 + 7O_2 \longrightarrow 4CO_2 + 6H_2O$; combustion

d. $2KI + Br_2 \longrightarrow 2KBr + I_2$; displacement

e. $H_2CO_3 \longrightarrow CO_2 + H_2O$; decomposition

f. $Ca + 2H_2O \longrightarrow Ca(OH)_2 + H_2$; displacement

g. $2KClO_3 \longrightarrow 2KCl + 3O_2$; decomposition

h. $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$; combustion

i. $Zn + 2HCl \longrightarrow ZnCl_2 + H_2$; displacement

j. $2H_2O \xrightarrow{electricity} 2H_2 + O_2$; decomposition

k. $C_3H_8 + 5O_2 \longrightarrow 3CO_2 + 4H_2O$; combustion

l. $BaO + H_2O \longrightarrow Ba(OH)_2$; synthesis