

Chemical Reactions. Balance Each Equation.

1. zinc + copper (II) sulfate \rightarrow copper + zinc sulfate
 $\text{Zn} + \text{CuSO}_4 \rightarrow \text{Cu} + \text{ZnSO}_4$
2. potassium chlorate \rightarrow potassium chloride + oxygen
 $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
3. potassium iodide + lead (II) nitrate \rightarrow lead (II) iodide + potassium nitrate
 $2\text{KI} + \text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbI}_2 + 2\text{KNO}_3$
4. iron (III) oxide + carbon \rightarrow iron + carbon monoxide
 $\text{Fe}_2\text{O}_3 + 3\text{C} \rightarrow 2\text{Fe} + 3\text{CO}$
5. iron + water \rightarrow hydrogen + iron (III) oxide
 $2\text{Fe} + 3\text{H}_2\text{O} \rightarrow 3\text{H}_2 + \text{Fe}_2\text{O}_3$
6. aluminum + sulfuric acid \rightarrow aluminum sulfate + hydrogen
 $2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{H}_2$
7. magnesium chloride + ammonium nitrate \rightarrow magnesium nitrate + ammonium chloride
 $\text{MgCl}_2 + 2\text{NH}_4\text{NO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + 2\text{NH}_4\text{Cl}$
8. mercury (II) oxide \rightarrow mercury + oxygen
 $2\text{HgO} \rightarrow 2\text{Hg} + \text{O}_2$
9. sodium carbonate + calcium hydroxide \rightarrow sodium hydroxide + calcium carbonate
 $2\text{Na}_2\text{CO}_3 + \text{Ca}(\text{OH})_2 \rightarrow 2\text{NaOH} + \text{CaCO}_3$
10. phosphorus + oxygen \rightarrow phosphorus pentoxide
 $2\text{P} + 5\text{O}_2 \rightarrow 2\text{P}_2\text{O}_5$
11. sodium + water \rightarrow sodium hydroxide + hydrogen
 $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$
12. zinc + sulfuric acid \rightarrow zinc sulfate + hydrogen
 $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$
13. calcium oxide + water \rightarrow calcium hydroxide
 $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$
14. iron + copper (I) nitrate \rightarrow iron (II) nitrate + copper
 $\text{Fe} + 2\text{CuNO}_3 \rightarrow \text{Fe}(\text{NO}_3)_2 + 2\text{Cu}$
15. potassium oxide + water \rightarrow potassium hydroxide
 $\text{K}_2\text{O} + \text{H}_2\text{O} \rightarrow 2\text{KOH}$
16. ammonium sulfide + lead (II) nitrate \rightarrow ammonium nitrate + lead (II) sulfide
 $(\text{NH}_4)_2\text{S} + \text{Pb}(\text{NO}_3)_2 \rightarrow 2\text{NH}_4\text{NO}_3 + \text{PbS}$
17. mercury (II) hydroxide + phosphoric acid \rightarrow mercury (II) phosphate + water
 $3\text{Hg}(\text{OH})_2 + 2\text{H}_3\text{PO}_4 \rightarrow \text{Hg}_3(\text{PO}_4)_2 + 6\text{H}_2\text{O}$
18. potassium hydroxide + phosphoric acid \rightarrow potassium phosphate + water
 $3\text{KOH} + \text{H}_3\text{PO}_4 \rightarrow \text{K}_3\text{PO}_4 + 3\text{H}_2\text{O}$
19. calcium chloride + nitric acid \rightarrow calcium nitrate + hydrochloric acid
 $\text{CaCl}_2 + 2\text{HNO}_3 \rightarrow \text{Ca}(\text{NO}_3)_2 + 2\text{HCl}$

20. potassium carbonate + barium chloride → potassium chloride + barium carbonate
 $K_2CO_3 + BaCl_2 \rightarrow 2KCl + BaCO_3$
21. magnesium hydroxide + sulfuric acid → magnesium sulfate + water
 $Mg(OH)_2 + H_2SO_4 \rightarrow MgSO_4 + 2HOH$
22. sulfur dioxide + water → sulfurous acid
 $SO_2 + H_2O \rightarrow H_2SO_3$
23. sodium carbonate + hydrochloric acid → sodium chloride + water + carbon dioxide
 $Na_2CO_3 + 2HCl \rightarrow 2NaCl + H_2O + CO_2$
24. magnesium + nitric acid → magnesium nitrate + hydrogen
 $Mg + 2HNO_3 \rightarrow Mg(NO_3)_2 + H_2$
25. potassium phosphate + magnesium chloride → magnesium phosphate + potassium chloride
 $2K_3PO_4 + 3MgCl_2 \rightarrow Mg_3(PO_4)_2 + 6KCl$
26. aluminum + iron (III) oxide → aluminum oxide + iron
 $2Al + Fe_2O_3 \rightarrow Al_2O_3 + 2Fe$
27. ammonia + oxygen → nitrogen + water
 $NH_3 + O_2 \rightarrow N_2 + H_2O$
28. calcium carbonate → calcium oxide + carbon dioxide
 $CaCO_3 \rightarrow CaO + CO_2$
29. sodium chloride + sulfuric acid → sodium sulfate + hydrochloric acid
 $NaCl + H_2SO_4 \rightarrow Na_2SO_4 + HCl$
30. fluorine + sodium hydroxide → sodium fluoride + oxygen + water
 $2F_2 + 4NaOH \rightarrow 4NaF + O_2 + 2H_2O$
31. magnesium nitrate + calcium iodide → calcium nitrate + magnesium iodide
 $Mg(NO_3)_2 + CaI_2 \rightarrow Ca(NO_3)_2 + MgI_2$
32. aluminum sulfate + ammonium bromide → aluminum bromide + ammonium sulfate
 $Al_2(SO_4)_3 + 6NH_4Br \rightarrow 2AlBr_3 + 3(NH_4)_2SO_4$
33. potassium fluoride + barium bromide → barium fluoride + potassium bromide
 $2KF + BaBr_2 \rightarrow BaF_2 + 2KBr$
34. copper (II) nitrate + ammonium hydroxide → copper (II) hydroxide + ammonium nitrate
 $Cu(NO_3)_2 + 2NH_4OH \rightarrow Cu(OH)_2 + 2NH_4NO_3$
35. sodium nitrate → sodium nitrite + oxygen
 $2NaNO_3 \rightarrow 2NaNO_2 + O_2$
36. lead (II) hydroxide → lead (II) oxide + water
 $Pb(OH)_2 \rightarrow PbO + H_2O$
37. ammonia + sulfuric acid → ammonium sulfate
 $2NH_3 + H_2SO_4 \rightarrow (NH_4)_2SO_4$
38. hydrochloric acid + ammonia → ammonium chloride
 $HCl + NH_3 \rightarrow NH_4Cl$

39. copper (II) sulfate + iron \rightarrow iron (II) sulfate + copper
 $\text{CuSO}_4 + \text{Fe} \rightarrow \text{FeSO}_4 + \text{Cu}$
40. aluminum + hydrochloric acid \rightarrow aluminum chloride + hydrogen
 $2\text{Al} + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2$
41. carbon + oxygen \rightarrow carbon dioxide
 $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
42. calcium bicarbonate + calcium hydroxide \rightarrow calcium carbonate + water
 $\text{Ca}(\text{HCO}_3)_2 + \text{Ca}(\text{OH})_2 \rightarrow 2\text{CaCO}_3 + 2\text{H}_2\text{O}$
43. hydrogen sulfide + oxygen \rightarrow water + sulfur
 $2\text{H}_2\text{S} + \text{O}_2 \rightarrow 2\text{H}_2\text{O} + 2\text{S}$
44. sodium hydroxide + calcium nitrate \rightarrow sodium nitrate + calcium hydroxide
 $\text{NaOH} + \text{Ca}(\text{NO}_3)_2 \rightarrow \text{NaNO}_3 + \text{Ca}(\text{OH})_2$
45. potassium iodide + chlorine \rightarrow potassium chloride + iodine
 $2\text{KI} + \text{Cl}_2 \rightarrow 2\text{KCl} + \text{I}_2$
46. sulfuric acid + potassium hydroxide \rightarrow potassium sulfate + water
 $\text{H}_2\text{SO}_4 + 2\text{KOH} \rightarrow \text{K}_2\text{SO}_4 + 2\text{HOH}$
47. carbon dioxide + carbon \rightarrow carbon monoxide
 $\text{CO}_2 + \text{C} \rightarrow \text{CO}$
48. calcium sulfate + sodium carbonate \rightarrow calcium carbonate + sodium sulfate
 $\text{CaSO}_4 + \text{Na}_2\text{CO}_3 \rightarrow \text{CaCO}_3 + \text{Na}_2\text{SO}_4$
49. water + diphosphorous pentoxide \rightarrow phosphoric acid
 $3\text{H}_2\text{O} + \text{P}_2\text{O}_5 \rightarrow 2\text{H}_3\text{PO}_4$
50. aluminum + phosphoric acid \rightarrow hydrogen + aluminum phosphate
 $2\text{Al} + 2\text{H}_3\text{PO}_4 \rightarrow 3\text{H}_2 + 2\text{AlPO}_4$
51. ammonium chloride + sodium nitrite \rightarrow sodium chloride + nitrogen + water
 $\text{NH}_4\text{Cl} + \text{NaNO}_2 \rightarrow \text{NaCl} + \text{N}_2 + 2\text{H}_2\text{O}$
52. chlorine + sodium hydroxide \rightarrow sodium chloride + sodium hypochlorite + water
 $\text{Cl}_2 + 2\text{NaOH} \rightarrow \text{NaCl} + \text{NaClO} + \text{H}_2\text{O}$
53. lead (II) nitrate \rightarrow lead (II) oxide + nitrogen dioxide + oxygen
 $2\text{Pb}(\text{NO}_3)_2 \rightarrow 2\text{PbO} + 4\text{NO}_2 + \text{O}_2$
54. mercury (I) oxide + oxygen \rightarrow mercury (II) oxide
 $\text{Hg}_2\text{O} + \text{O}_2 \rightarrow 2\text{HgO}$
55. calcium oxide + magnesium chloride \rightarrow magnesium oxide + calcium chloride
 $\text{CaO} + \text{MgCl}_2 \rightarrow \text{MgO} + \text{CaCl}_2$
56. calcium + water \rightarrow calcium hydroxide + hydrogen
 $\text{Ca} + 2\text{HOH} \rightarrow \text{Ca}(\text{OH})_2 + \text{H}_2$
57. chromium (III) chloride + sulfuric acid \rightarrow chromium (III) sulfate + hydrochloric acid
 $2\text{CrCl}_3 + 3\text{H}_2\text{SO}_4 \rightarrow \text{Cr}_2(\text{SO}_4)_3 + 6\text{HCl}$

58. iron (III) nitrate + ammonium hydroxide \rightarrow iron (III) hydroxide + ammonium nitrate
 $\text{Fe}(\text{NO}_3)_3 + 3\text{NH}_4\text{OH} \rightarrow \text{Fe}(\text{OH})_3 + 3\text{HN}_4\text{NO}_3$
59. aluminum chloride + potassium phosphate \rightarrow aluminum phosphate + potassium chloride
 $\text{AlCl}_3 + \text{K}_3\text{PO}_4 \rightarrow \text{AlPO}_4 + 3\text{KCl}$
60. aluminum oxide + carbon + chlorine \rightarrow carbon monoxide + aluminum chloride
 $\text{Al}_2\text{O}_3 + 3\text{C} + 3\text{Cl}_2 \rightarrow 3\text{CO} + 2\text{AlCl}_3$
61. copper (I) oxide + hydrochloric acid \rightarrow copper (I) chloride + water
 $\text{Cu}_2\text{O} + 2\text{HCl} \rightarrow 2\text{CuCl} + \text{H}_2\text{O}$
62. magnesium bicarbonate + hydrochloric acid \rightarrow magnesium chloride + water + carbon dioxide
 $\text{Mg}(\text{HCO}_3)_2 + 2\text{HCl} \rightarrow \text{MgCl}_2 + 2\text{H}_2\text{O} + 2\text{CO}_2$
63. iron + oxygen \rightarrow iron (III) oxide
 $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
64. silicon + water \rightarrow silicon dioxide + hydrogen
 $\text{Si} + 2\text{H}_2\text{O} \rightarrow \text{SiO}_2 + 2\text{H}_2$
65. iron (III) oxide + carbon monoxide \rightarrow iron + carbon dioxide
 $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$
66. calcium chloride + chromium (III) nitrate \rightarrow calcium nitrate + chromium (III) chloride
 $3\text{CaCl}_2 + 2\text{Cr}(\text{NO}_3)_3 \rightarrow 3\text{Ca}(\text{NO}_3)_2 + 2\text{CrCl}_3$
67. zinc sulfide + oxygen \rightarrow zinc oxide + sulfur dioxide
 $2\text{ZnS} + 3\text{O}_2 \rightarrow 2\text{ZnO} + 2\text{SO}_2$
68. calcium phosphate + sulfuric acid \rightarrow calcium sulfate + phosphoric acid
 $\text{Ca}_3(\text{PO}_4)_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + \text{H}_3\text{PO}_4$
69. iron (III) hydroxide \rightarrow iron (III) oxide + water
 $2\text{Fe}(\text{OH})_3 \rightarrow \text{Fe}_2\text{O}_3 + 3\text{H}_2\text{O}$
70. aluminum sulfate + sodium bicarbonate \rightarrow aluminum oxide + sodium sulfate + carbon dioxide + water
 $\text{Al}_2(\text{SO}_4)_3 + 6\text{NaHCO}_3 \rightarrow \text{Al}_2\text{O}_3 + 3\text{Na}_2\text{SO}_4 + 6\text{CO}_2 + 3\text{H}_2\text{O}$
71. calcium phosphate + silicon dioxide + carbon \rightarrow phosphorus + calcium silicate + carbon monoxide
 $\text{Ca}_3(\text{PO}_4)_2 + 3\text{SiO}_2 + 5\text{C} \rightarrow 2\text{P} + 3\text{CaSiO}_3 + 5\text{CO}$
72. calcium oxide + sulfur dioxide \rightarrow calcium sulfite
 $\text{CaO} + \text{SO}_2 \rightarrow \text{CaSO}_3$
73. carbon dioxide + magnesium hydroxide \rightarrow magnesium carbonate + water
 $\text{CO}_2 + \text{Mg}(\text{OH})_2 \rightarrow \text{MgCO}_3 + \text{H}_2\text{O}$
74. calcium oxide + hydrochloric acid \rightarrow calcium chloride + water
 $\text{CaO} + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O}$
75. calcium carbonate + silicon dioxide \rightarrow calcium silicate + carbon dioxide
 $\text{CaCO}_3 + \text{SiO}_2 \rightarrow \text{CaSiO}_3 + \text{CO}_2$
76. antimony + chlorine \rightarrow antimony (III) chloride
 $2\text{Sb} + 3\text{Cl}_2 \rightarrow 2\text{SbCl}_3$

77. magnesium nitride + water \rightarrow magnesium hydroxide + ammonia
 $\text{Mg}_3\text{N}_2 + 6\text{H}_2\text{O} \rightarrow 3\text{Mg}(\text{OH})_2 + 2\text{NH}_3$
78. arsenic + oxygen \rightarrow arsenic (III) oxide
 $4\text{As} + 3\text{O}_2 \rightarrow 2\text{As}_2\text{O}_3$
79. ammonium bicarbonate \rightarrow ammonia + water + carbon dioxide
 $\text{NH}_4\text{HCO}_3 \rightarrow \text{NH}_3 + \text{H}_2\text{O} + \text{CO}_2$
80. copper (II) oxide + ammonia \rightarrow copper + water + nitrogen
 $3\text{CuO} + 2\text{NH}_3 \rightarrow 3\text{Cu} + 3\text{H}_2\text{O} + \text{N}_2$
81. ammonium dichromate \rightarrow chromium (III) oxide + nitrogen + water
 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7 \rightarrow \text{Cr}_2\text{O}_3 + \text{N}_2 + 4\text{H}_2\text{O}$
82. hydrogen sulfide + cadmium nitrate \rightarrow nitric acid + cadmium sulfide
 $\text{H}_2\text{S} + \text{Cd}(\text{NO}_3)_2 \rightarrow 2\text{HNO}_3 + \text{CdS}$
83. barium bromide + sodium phosphate \rightarrow barium phosphate + sodium bromide
 $3\text{BaBr}_2 + 2\text{Na}_3\text{PO}_4 \rightarrow \text{Ba}_3(\text{PO}_4)_2 + 6\text{NaBr}$
84. aluminum chloride + ammonium fluoride \rightarrow ammonium chloride + aluminum fluoride
 $\text{AlCl}_3 + 3\text{NH}_4\text{F} \rightarrow 3\text{NH}_4\text{Cl} + \text{AlF}_3$
85. silver nitrate + potassium sulfate \rightarrow silver sulfate + potassium nitrate
 $2\text{AgNO}_3 + \text{K}_2\text{SO}_4 \rightarrow \text{Ag}_2\text{SO}_4 + 2\text{KNO}_3$
86. bismuth (III) nitrate + calcium iodide \rightarrow bismuth (III) iodide + calcium nitrate
 $2\text{Bi}(\text{NO}_3)_3 + 3\text{CaI}_2 \rightarrow 2\text{BiI}_3 + 3\text{Ca}(\text{NO}_3)_2$
87. aluminum chromate + ammonium sulfate \rightarrow ammonium chromate + aluminum sulfate
 $\text{Al}_2(\text{CrO}_4)_3 + 3(\text{NH}_4)_2\text{SO}_4 \rightarrow 3(\text{NH}_4)_2\text{CrO}_4 + \text{Al}_2(\text{SO}_4)_3$
88. zinc nitrate + ammonium bromide \rightarrow zinc bromide + ammonium nitrate
 $\text{Zn}(\text{NO}_3)_2 + 2\text{NH}_4\text{Br} \rightarrow \text{ZnBr}_2 + 2\text{NH}_4\text{NO}_3$
89. bismuth (V) nitrate + ammonium hydroxide \rightarrow bismuth (V) hydroxide + ammonium nitrate
 $\text{Bi}(\text{NO}_3)_5 + 5\text{NH}_4\text{OH} \rightarrow \text{Bi}(\text{OH})_5 + 5\text{NH}_4\text{NO}_3$
90. cadmium nitrate + sulfuric acid \rightarrow cadmium sulfate + nitric acid
 $\text{Cd}(\text{NO}_3)_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CdSO}_4 + 2\text{HNO}_3$
91. zinc + silver iodide \rightarrow zinc iodide + silver
 $\text{Zn} + 2\text{AgI} \rightarrow \text{ZnI}_2 + 2\text{Ag}$
92. iron (III) chloride + sulfuric acid \rightarrow iron (III) sulfate + hydrochloric acid
 $2\text{FeCl}_3 + 3\text{H}_2\text{SO}_4 \rightarrow \text{Fe}_2(\text{SO}_4)_3 + 6\text{HCl}$
93. bismuth (III) sulfate + ammonium hydroxide \rightarrow bismuth (III) hydroxide + ammonium sulfate
 $\text{Bi}_2(\text{SO}_4)_3 + 6\text{NH}_4\text{OH} \rightarrow 2\text{Bi}(\text{OH})_3 + 3(\text{NH}_4)_2\text{SO}_4$
94. hydrogen iodide + oxygen \rightarrow iodine + water
 $2\text{HI} + \text{O}_2 \rightarrow \text{I}_2 + \text{H}_2\text{O}$
95. potassium sulfate + barium chloride \rightarrow barium sulfate + potassium chloride
 $\text{K}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaSO}_4 + 2\text{KCl}$

96. barium sulfate + carbon \rightarrow barium sulfide + carbon monoxide
 $\text{BaSO}_4 + 4\text{C} \rightarrow \text{BaS} + 4\text{CO}$
97. aluminum oxide + hydrofluoric acid \rightarrow aluminum fluoride + water
 $\text{Al}_2\text{O}_3 + 6\text{HF} \rightarrow 2\text{AlF}_3 + 3\text{H}_2\text{O}$
98. potassium iodide + hydrogen peroxide \rightarrow potassium hydroxide + iodine
 $2\text{KI} + \text{H}_2\text{O}_2 \rightarrow 2\text{KOH} + \text{I}_2$
99. zinc + iron (III) sulfate \rightarrow zinc sulfate + iron (II) sulfate
 $\text{Zn} + \text{Fe}_2(\text{SO}_4)_3 \rightarrow \text{ZnSO}_4 + 2\text{FeSO}_4$
100. lead (II) sulfide + lead (II) oxide \rightarrow lead + sulfur dioxide
 $\text{PbS} + 2\text{PbO} \rightarrow 3\text{Pb} + \text{SO}_2$
101. copper + sulfuric acid \rightarrow copper (II) sulfate + water + sulfur dioxide
 $\text{Cu} + 2\text{H}_2\text{SO}_4 \rightarrow \text{CuSO}_4 + 2\text{H}_2\text{O} + \text{SO}_2$
102. aluminum hydroxide \rightarrow aluminum oxide + water
 $2\text{Al}(\text{OH})_3 \rightarrow \text{Al}_2\text{O}_3 + 3\text{H}_2\text{O}$
103. nitrogen + hydrogen \rightarrow ammonia
 $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
104. sodium carbonate + carbonic acid \rightarrow sodium bicarbonate
 $\text{Na}_2\text{CO}_3 + \text{H}_2\text{CO}_3 \rightarrow 2\text{NaHCO}_3$
105. silicon dioxide + hydrofluoric acid \rightarrow water + silicon tetrafluoride
 $\text{SiO}_2 + 4\text{HF} \rightarrow 2\text{H}_2\text{O} + \text{SiF}_4$
106. sodium hypochlorite \rightarrow sodium chloride + sodium chlorate
 $3\text{NaClO} \rightarrow 2\text{NaCl} + \text{NaClO}_3$
107. sodium chlorite + chlorine \rightarrow sodium chloride + chlorine dioxide
 $2\text{NaClO}_2 + \text{Cl}_2 \rightarrow 2\text{NaCl} + 2\text{ClO}_2$
108. methane (CH_4) + sulfur dioxide \rightarrow hydrogen sulfide + carbon dioxide + hydrogen
 $\text{CH}_4 + \text{SO}_2 \rightarrow \text{H}_2\text{S} + \text{CO}_2 + \text{H}_2$
109. iron (II) selenide + hydrochloric acid \rightarrow iron (II) chloride + hydrogen selenide
 $\text{FeSe} + 2\text{HCl} \rightarrow \text{FeCl}_2 + \text{H}_2\text{Se}$
110. magnesium + nitrogen \rightarrow magnesium nitride
 $3\text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$
111. silver cyanide + potassium \rightarrow potassium cyanide + silver
 $\text{AgCN} + \text{K} \rightarrow \text{KCN} + \text{Ag}$
112. tungsten + chlorine \rightarrow tungsten hexachloride
 $\text{W} + 3\text{Cl}_2 \rightarrow \text{WCl}_6$
113. calcium + ammonia \rightarrow calcium hydride + nitrogen
 $2\text{Ca} + 3\text{NH}_3 \rightarrow 2\text{CaH}_2 + 3\text{N}_2$
114. lithium hydride + water \rightarrow lithium hydroxide + hydrogen
 $\text{LiH} + \text{H}_2\text{O} \rightarrow \text{LiOH} + \text{H}_2$

115. aluminum + hydrochloric acid →
 $2\text{Al} + 6\text{HCl} \rightarrow 3\text{H}_2 + 2\text{AlCl}_3$
116. calcium hydroxide + nitric acid →
 $\text{Ca}(\text{OH})_2 + 2\text{HNO}_3 \rightarrow 2\text{HOH} + \text{Ca}(\text{NO}_3)_2$
117. magnesium + zinc nitrate →
 $\text{Mg} + \text{Zn}(\text{NO}_3)_2 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{Zn}$
118. zinc chloride + hydrogen sulfide →
 $\text{ZnCl}_2 + \text{H}_2\text{S} \rightarrow \text{ZnS} + 2\text{HCl}$
119. dinitrogen pentoxide + water →
 $\text{N}_2\text{O}_5 + \text{H}_2\text{O} \rightarrow 2\text{HNO}_3$
120. silver nitrate + sodium chloride →
 $\text{AgNO}_3 + \text{NaCl} \rightarrow \text{AgCl} + \text{NaNO}_3$
121. barium nitrate + sodium chromate →
 $\text{Ba}(\text{NO}_3)_2 + \text{Na}_2\text{CrO}_4 \rightarrow \text{BaCrO}_4 + 2\text{NaNO}_3$
122. calcium phosphate + aluminum sulfate →
 $\text{Ca}_3(\text{PO}_4)_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow 3\text{CaSO}_4 + 2\text{AlPO}_4$
123. sodium chloride →
 $2\text{NaCl} \rightarrow 2\text{Na} + \text{Cl}_2$
124. sulfur dioxide + water →
 $\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_3$
125. magnesium + hydrochloric acid →
 $\text{Mg} + 2\text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
126. ammonium nitrite + barium hydroxide →
 $2\text{NH}_4\text{NO}_3 + \text{Ba}(\text{OH})_2 \rightarrow \text{Ba}(\text{NO}_3)_2 + 2\text{NH}_4\text{OH}$
127. barium oxide + water →
 $\text{BaO} + \text{HOH} \rightarrow \text{Ba}(\text{OH})_2$
128. calcium + oxygen →
 $2\text{Ca} + \text{O}_2 \rightarrow 2\text{CaO}$
129. calcium + phosphoric acid →
 $\text{Ca} + 2\text{H}_3\text{PO}_4 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + 3\text{H}_2$
130. calcium chloride + ammonium hydroxide →
 $\text{CaCl}_2 + 2\text{NH}_4\text{OH} \rightarrow \text{Ca}(\text{OH})_2 + 2\text{NH}_4\text{Cl}$
131. aluminum sulfide + hydrochloric acid →
 $\text{Al}_2\text{S}_3 + 3\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2\text{S}$
132. sodium carbonate + sulfuric acid →
 $\text{Na}_2\text{CO}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{CO}_2 + \text{H}_2\text{O}$
133. lithium + bromine →
 $2\text{Li} + \text{Br}_2 \rightarrow 2\text{LiBr}$

134. sulfur trioxide + water →
 $\text{SO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4$
135. calcium carbonate + hydrochloric acid →
 $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{CO}_2 + \text{H}_2\text{O}$
136. zinc + sulfuric acid →
 $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$
137. lead (II) hydroxide + hydrochloric acid →
 $\text{Pb}(\text{OH})_2 + 2 \text{HCl} \rightarrow \text{PbCl}_2 + 2\text{HOH}$
138. iron (II) carbonate + phosphoric acid →
 $3\text{FeCO}_3 + 2\text{H}_3\text{PO}_4 \rightarrow 3\text{H}_2\text{O} + 3\text{CO}_2 + \text{Fe}_3(\text{PO}_4)_2$
139. silver sulfide + hydrochloric acid →
 $\text{Ag}_2\text{S} + 2\text{HCl} \rightarrow 2\text{AgCl} + \text{H}_2\text{S}$
140. magnesium nitrate + hydrochloric acid →
 $\text{Mg}(\text{NO}_3)_2 + 2\text{HCl} \rightarrow 2\text{HNO}_3 + \text{MgCl}_2$
141. zinc hydroxide + sulfuric acid →
 $\text{Zn}(\text{OH})_2 + \text{H}_2\text{SO}_4 \rightarrow 2\text{HOH} + \text{ZnSO}_4$
142. calcium oxide + water →
 $\text{CaO} + \text{HOH} \rightarrow \text{Ca}(\text{OH})_2$
143. sodium chloride + potassium nitrate →
 $\text{NaCl} + \text{KNO}_3 \rightarrow \text{KCl} + \text{NaNO}_3$
144. lithium hydroxide + phosphoric acid →
 $3\text{LiOH} + \text{H}_3\text{PO}_4 \rightarrow 3\text{HOH} + \text{Li}_3\text{PO}_4$