

## Chemical Formulas

Ammonium bromide	$NH_4Br$	Magnesium sulfide	$MgS$
Calcium sulfate	$CaSO_4$	Zinc carbonate	$ZnCO_3$
Barium bicarbonate	$Ba(HCO_3)_2$	Iron (II) bisulfate	$Fe(HSO_4)_2$
Cobalt (II) nitrate	$Co(NO_3)_2$	Magnesium phosphate	$Mg_3(PO_4)_2$
Strontium fluoride	$SrF_2$	Ammonium chloride	$NH_4Cl$
Lithium oxide	$Li_2O$	Calcium sulfide	$CaS$
Zinc sulfate	$ZnSO_4$	Barium carbonate	$BaCO_3$
Iron (II) bicarbonate	$Fe(HCO_3)_2$	Cobalt (II) bisulfate	$Co(HSO_4)_2$
Mercury (II) nitrate	$Hg(NO_3)_2$	Manganese dihydrogenphosphate	$Mn(H_2PO_4)_2$
Aluminium phosphate	$AlPO_4$	Ammonium fluoride	$NH_4F$
Magnesium iodide	$MgI_2$	Copper oxide	$CuO$
Zinc sulfide	$ZnS$	Barium sulfate	$BaSO_4$
Iron (II) carbonate	$FeCO_3$	Cobalt (II) Hydrogencarbonate	$Co(HCO_3)_2$
Mercury (II) bisulfate	$Hg(HSO_4)_2$	Magnesium fluoride	$MgF_2$
Calcium iodide	$CaI_2$	Zinc oxide	$ZnO$
Barium sulfide	$BaS$	Iron (II) sulfate	$FeSO_4$
Magnesium chloride	$MgCl_2$	Cobalt (III) carbonate	$Co_2(CO_3)_3$
Manganese bisulfate	$Mn(HSO_4)_2$	Magnesium bromide	$MgBr_2$
Aluminium hydroxide	$Al(OH)_3$	Iron (III) phosphate	$FePO_4$
Manganese nitrate	$Mn(NO_3)_2$	Calcium bromide	$CaBr_2$
Zinc iodide	$ZnI_2$	Barium oxide	$BaO$

Sodium fluoride	$NaF$	Potassium chloride	$KCl$
Silver bromide	$AgBr$	Ammonium iodide	$NH_4I$
Mercury (I) oxide	$Hg_2O$	Hydrogen sulfide	$H_2S$
Rubidium sulfate	$Rb_2SO_4$	Calcium carbonate	$CaCO_3$
Zinc bicarbonate	$Zn(HCO_3)_2$	Barium hydrogensulfate	$Ba(HSO_4)_2$
Lithium nitrate	$LiNO_3$	Cobalt (II) hydroxide	$Co(OH)_2$
Mercury (II) phosphate	$Hg_3(PO_4)_2$	Sodium chloride	$NaCl$
Potassium bromide	$KBr$	Caesium iodide	$CsI$
Mercury (I) sulfide	$Hg_2S$	Sulfuric acid	$H_2SO_4$
Magnesium carbonate	$MgCO_3$	Calcium bicarbonate	$Ca(HCO_3)_2$
Zinc bisulfate	$Zn(HSO_4)_2$	Barium nitrate	$Ba(NO_3)_2$
Rubidium phosphate	$Rb_3PO_4$	Iron (II) hydroxide	$Fe(OH)_2$
Sodium bromide	$NaBr$	Potassium iodide	$KI$
Silver oxide	$Ag_2O$	Ammonium sulfide	$(NH_4)_2S$
Mercury (I) sulfate	$Hg_2SO_4$	Magnesium bicarbonate	$Mg(HCO_3)_2$
Calcium bisulfate	$Ca(HSO_4)_2$	Zinc nitrate	$Zn(NO_3)_2$
Barium hydroxide	$Ba(OH)_2$	Iron (II) phosphate	$Fe_3(PO_4)_2$
Sodium iodide	$NaI$	Potassium oxide	$K_2O$
Nickel sulfide	$NiS$	Ammonium sulfate	$(NH_4)_2SO_4$
Mercury (I) carbonate	$Hg_2CO_3$	Magnesium bisulfate	$Mg(HSO_4)_2$
Calcium nitrate	$Ca(NO_3)_2$	Zinc hydroxide	$Zn(OH)_2$

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Iron (III) bicarbonate	$Fe(HCO_3)_3$	Iron (II) fluoride	$FeF_2$
Cobalt (II) chloride	$CoCl_2$	Manganese oxide	$MnO$
Aluminium sulfide	$Al_2S_3$	Iron(III) sulfate	$Fe_2(SO_4)_3$
Chromium (III) carbonate	$Cr_2(CO_3)_3$	Cobalt (II) fluoride	$CoF_2$
Manganese bromide	$MnBr_2$	Aluminium oxide	$Al_2O_3$
Iron (III) sulfide	$Fe_2S_3$	Nickel sulfate	$NiSO_4$
Manganese oxalate	$MnC_2O_4$	Aluminium iodide	$AlI_3$
Iron (III) oxide	$Fe_2O_3$	Chromium (III) sulfite	$Cr_2(SO_3)_3$
Manganese fluoride	$MnF_2$	Aluminium bromide	$AlBr_3$
Iron (III) iodide	$FeI_3$	Chromium (III) sulfide	$Cr_2S_3$
Aluminium chloride	$AlCl_3$	Lead bromide	$PbBr_2$
Chromium (III) iodide	$CrI_3$	Water	$H_2O$
Carbon monoxide	$CO$	Carbon dioxide	$CO_2$
Sulfur dioxide	$SO_2$	Nitrogen dioxide	$NO_2$
Hydrochloric acid	$HCl$	Sulfuric acid	$H_2SO_4$
Hydrogen bromide	$HBr$	Hydrogen iodide	$HI$
Hydrogen fluoride	$HF$	Nitric acid	$HNO_3$
Sodium hydroxide	$NaOH$	Ammonia	$NH_3$
Sodium cyanide	$NaCN$	Calcium ethanoate	$Ca(CH_3COO)_2$
Acetic acid/ Ethanoic acid	$CH_3COOH$	Ammonium hydroxide	$NH_4OH$
Hydrogen gas	$H_2$	Oxygen gas	$O_2$

Iron (II) sulfide	$FeS$	Cobalt (II) sulfate	$CoSO_4$
Manganese bicarbonate	$Mn(HCO_3)_2$	Rubidium bisulfate	$RbHSO_4$
Iron (III) nitrate	$Fe(NO_3)_3$	Chromium (III) hydroxide	$Cr(OH)_3$
Copper (II) fluoride	$CuF_2$	Zinc permanganate	$Zn(MnO_4)_2$
Barium iodide	$BaI_2$	Aluminum nitrate	$Al(NO_3)_3$
Iron (III) hydroxide	$Fe(OH)_3$	Chromium (III) phosphate	$CrPO_4$
Calcium chloride	$CaCl_2$	Iron (II) oxide	$FeO$
Cobalt (II) sulfide	$CoS$	Manganese carbonate	$MnCO_3$
Aluminium bicarbonate	$Al(HCO_3)_3$	Iron (III) chromate	$Fe_2(CrO_4)_3$
Cobalt (III) sulfite	$Co_2(SO_3)_3$	Manganese <del>oxide</del> oxide	$MnO$
Barium bromide	$BaBr_2$	Iron (II) iodide	$FeI_2$
Cobalt (II) oxide	$CoO$	Manganese sulfate	$MnSO_4$
Iron (III) ethanoate	$Fe(CH_3COO)_3$	Chromium (III) chloride	$CrCl_3$
Iron (II) bromide	$FeBr_2$	Strontium iodide	$SrI_2$
Manganese oxide	$MnO$	Lead chloride	$PbCl_2$
Manganese sulfide	$MnS$	Aluminium sulfate	$Al_2(SO_4)_3$
Iron (III) carbonate	$Fe_2(CO_3)_3$	Barium chloride	$BaCl_2$
Aluminium carbonate	$Al_2(CO_3)_3$	Barium nitrite	$Ba(NO_2)_2$
Chromium (III) dichromate	$Cr_2(Cr_2O_7)_3$	Iron (II) chloride	$FeCl_2$
Caesium bromide	$CsBr$	Aluminium fluoride	$AlF_3$
Iron (III) chloride	$FeCl_3$	Chromium (III) bromide	$CrBr_3$

## Chemical Formulas

Barium nitride	$\text{Ba}_3\text{N}_2$	Caesium oxide	$\text{Cs}_2\text{O}$
Potassium sulfide	$\text{K}_2\text{S}$	Silver sulfate	$\text{Ag}_2\text{SO}_4$
Strontium carbonate	$\text{SrCO}_3$	Manganese nitrate	$\text{Mn}(\text{NO}_3)_2$
Calcium hydroxide	$\text{Ca}(\text{OH})_2$	Zinc phosphate	$\text{Zn}_3(\text{PO}_4)_2$
Sodium sulfide	$\text{Na}_2\text{S}$	Potassium hydrogenphosphate	$\text{K}_2\text{HPO}_4$
Silver carbonate	$\text{Ag}_2\text{CO}_3$	Ammonium bicarbonate	$\text{NH}_4\text{HCO}_3$
Nitric acid	$\text{HNO}_3$	Magnesium hydroxide	$\text{Mg}(\text{OH})_2$
Calcium phosphate	$\text{Ca}_3(\text{PO}_4)_2$	Sodium sulfate	$\text{Na}_2\text{SO}_4$
Potassium carbonate	$\text{K}_2\text{CO}_3$	Silver dihydrogenphosphate	$\text{Ag}_2\text{H}_2\text{PO}_4$
Ammonium oxalate	$(\text{NH}_4)_2\text{C}_2\text{O}_4$	Magnesium phosphate	$\text{Mg}_3(\text{PO}_4)_2$
Sodium carbonate	$\text{Na}_2\text{CO}_3$	Potassium sulfite	$\text{K}_2\text{SO}_3$
Silver bisulfate	$\text{AgHSO}_4$	Ammonium sulfide	$(\text{NH}_4)_2\text{S}$
Phosphoric acid	$\text{H}_3\text{PO}_4$	Sodium bicarbonate	$\text{NaHCO}_3$
Silver acetate	$\text{AgCH}_3\text{COO}$	Silver nitrate	$\text{AgNO}_3$
Ammonium hydroxide	$\text{NH}_4\text{OH}$	Mercury (I) phosphate	$\text{Hg}_2\text{PO}_4$
Sodium bisulfate	$\text{NaHSO}_4$	Potassium nitrate	$\text{KNO}_3$
Ammonium phosphate	$(\text{NH}_4)_3\text{PO}_4$	Sodium nitrate	$\text{NaNO}_3$
Potassium hydroxide	$\text{KOH}$	Silver nitrite	$\text{AgNO}_2$
Rubidium hydroxide	$\text{RbOH}$	Potassium phosphate	$\text{K}_3\text{PO}_4$
Sodium phosphate	$\text{Na}_3\text{PO}_4$	Chromium (III) fluoride	$\text{CrF}_3$
Potassium fluoride	$\text{KF}$	Silver chloride	$\text{AgCl}$

 Write **and** balance the following equations: (on a new sheet)

- Potassium bicarbonate + nitric acid → potassium nitrate + water + carbon dioxide  
 $\text{KHCO}_3 + \text{HNO}_3 \rightarrow \text{KNO}_3 + \text{H}_2\text{O} + \text{CO}_2$
- Aluminum bicarbonate → aluminium oxide + water + carbon dioxide  
 $2\text{Al}(\text{HCO}_3)_3 \rightarrow \text{Al}_2\text{O}_3 + 3\text{H}_2\text{O} + 6\text{CO}_2$
- Iron (III) carbonate + hydrochloric acid → iron (III) chloride + water + carbon dioxide  
 $\text{Fe}_2(\text{CO}_3)_3 + 6\text{HCl} \rightarrow 2\text{FeCl}_3 + 3\text{H}_2\text{O} + 3\text{CO}_2$
- Copper (II) sulfate + iron → iron(II) sulfate + copper  
 $\text{CuSO}_4 + \text{Fe} \rightarrow \text{FeSO}_4 + \text{Cu}$
- Ammonium hydroxide + sulfuric acid → ammonium sulfate + water  
 $2\text{NH}_4\text{OH} + \text{H}_2\text{SO}_4 \rightarrow (\text{NH}_4)_2\text{SO}_4 + 2\text{H}_2\text{O}$
- Chromium (III) hydroxide + sulfuric acid → chromium (III) sulfate + water  
 $2\text{Cr}(\text{OH})_3 + 3\text{H}_2\text{SO}_4 \rightarrow \text{Cr}_2(\text{SO}_4)_3 + 6\text{H}_2\text{O}$
- Iron (III) oxide + carbon → iron + carbon dioxide  
 $2\text{Fe}_2\text{O}_3 + 3\text{C} \rightarrow 4\text{Fe} + 3\text{CO}_2$
- Ammonium bicarbonate → ammonium carbonate + water + carbon dioxide  
 $2\text{NH}_4\text{HCO}_3 \rightarrow (\text{NH}_4)_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
- Potassium + water → potassium hydroxide + hydrogen gas  
 $2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$
- Sodium hydroxide + sulfuric acid → sodium sulfate + water  
 $2\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O}$
- Magnesium + oxygen gas → magnesium oxide  
 $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
- Sodium + water → sodium hydroxide + hydrogen gas  
 $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$
- Aluminium carbonate + hydrochloric acid → aluminium chloride + water + CO<sub>2</sub>  
 $\text{Al}_2(\text{CO}_3)_3 + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2\text{O} + 3\text{CO}_2$
- Zinc oxide + phosphoric acid → zinc phosphate + water  
 $3\text{ZnO} + 2\text{H}_3\text{PO}_4 \rightarrow \text{Zn}_3(\text{PO}_4)_2 + 3\text{H}_2\text{O}$
- Ammonium carbonate + nitric acid → ammonium nitrate + carbon dioxide + water  
 $(\text{NH}_4)_2\text{CO}_3 + 2\text{HNO}_3 \rightarrow 2\text{NH}_4\text{NO}_3 + \text{CO}_2 + \text{H}_2\text{O}$

## Chemical Formulas

Balance the following equations

- 1  $\overset{3}{\text{NaOH}} + \overset{1}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Na}_3\text{PO}_4} + \overset{3}{\text{H}_2\text{O}}$
- 2  $\overset{1}{\text{Mg(OH)}_2} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{MgCl}_2} + \overset{2}{\text{H}_2\text{O}}$
- 3  $\overset{3}{\text{CaCO}_3} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Ca}_3(\text{PO}_4)_2} + \overset{3}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 4  $\overset{1}{\text{K}_2\text{CO}_3} + \overset{2}{\text{HCl}} \rightarrow \overset{2}{\text{KCl}} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 5  $\overset{3}{\text{Mg(OH)}_2} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Mg}_3(\text{PO}_4)_2} + \overset{6}{\text{H}_2\text{O}}$
- 6  $\overset{2}{\text{Ca}} + \overset{1}{\text{O}_2} \rightarrow \overset{2}{\text{CaO}}$
- 7  $\overset{1}{\text{Al}_2\text{O}_3} + \overset{2}{\text{Fe}} \rightarrow \overset{1}{\text{Fe}_2\text{O}_3} + \overset{2}{\text{Al}}$
- 8  $\overset{2}{\text{K}} + \overset{2}{\text{H}_2\text{O}} \rightarrow \overset{2}{\text{KOH}} + \overset{1}{\text{H}_2}$
- 9  $\overset{1}{\text{ZnO}} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{ZnCl}_2} + \overset{1}{\text{H}_2\text{O}}$
- 10  $\overset{4}{\text{Al}} + \overset{3}{\text{O}_2} \rightarrow \overset{2}{\text{Al}_2\text{O}_3}$
- 11  $\overset{1}{\text{Ca}} + \overset{2}{\text{H}_2\text{O}} \rightarrow \overset{1}{\text{Ca(OH)}_2} + \overset{1}{\text{H}_2}$
- 12  $\overset{2}{\text{NiS}} + \overset{3}{\text{O}_2} \rightarrow \overset{2}{\text{NiO}} + \overset{2}{\text{SO}_2}$
- 13  $\overset{2}{\text{Na}} + \overset{1}{\text{O}_2} \rightarrow \overset{1}{\text{Na}_2\text{O}_2}$
- 14  $\overset{1}{\text{Na}_2\text{O}} + \overset{2}{\text{HCl}} \rightarrow \overset{2}{\text{NaCl}} + \overset{1}{\text{H}_2\text{O}}$
- 15  $\overset{1}{\text{Al}_2(\text{CO}_3)_3} \rightarrow \overset{1}{\text{Al}_2\text{O}_3} + \overset{3}{\text{CO}_2}$
- 16  $\overset{1}{\text{Cr}_2(\text{CO}_3)_3} + \overset{3}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{Cr}_2(\text{SO}_4)_3} + \overset{3}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 17  $\overset{2}{\text{KClO}_3} \rightarrow \overset{2}{\text{KCl}} + \overset{3}{\text{O}_2}$
- 18  $\overset{2}{\text{Na}_2\text{O}_2} + \overset{2}{\text{H}_2\text{O}} \rightarrow \overset{4}{\text{NaOH}} + \overset{1}{\text{O}_2}$
- 19  $\overset{2}{\text{Al(OH)}_3} + \overset{3}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{Al}_2(\text{SO}_4)_3} + \overset{6}{\text{H}_2\text{O}}$
- 20  $\overset{2}{\text{H}_2} + \overset{1}{\text{O}_2} \rightarrow \overset{2}{\text{H}_2\text{O}}$
- 1  $\overset{2}{\text{NaOH}} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{Na}_2\text{SO}_4} + \overset{2}{\text{H}_2\text{O}}$
- 2  $\overset{3}{\text{KOH}} + \overset{1}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{K}_3\text{PO}_4} + \overset{3}{\text{H}_2\text{O}}$
- 3  $\overset{2}{\text{Mg}} + \overset{1}{\text{O}_2} \rightarrow \overset{2}{\text{MgO}}$
- 4  $\overset{1}{\text{Na}_2\text{CO}_3} + \overset{2}{\text{HCl}} \rightarrow \overset{2}{\text{NaCl}} + \overset{1}{\text{CO}_2} + \overset{1}{\text{H}_2\text{O}}$
- 5  $\overset{2}{\text{Fe}_2\text{O}_3} + \overset{3}{\text{C}} \rightarrow \overset{4}{\text{Fe}} + \overset{3}{\text{CO}_2}$
- 6  $\overset{2}{\text{NH}_4\text{OH}} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{(\text{NH}_4)_2\text{SO}_4} + \overset{2}{\text{H}_2\text{O}}$
- 7  $\overset{1}{\text{Zn}} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{ZnCl}_2} + \overset{1}{\text{H}_2}$
- 8  $\overset{2}{\text{NaHCO}_3} \rightarrow \overset{1}{\text{Na}_2\text{CO}_3} + \overset{1}{\text{CO}_2} + \overset{1}{\text{H}_2\text{O}}$
- 9  $\overset{1}{\text{Pb(NO}_3)_2} + \overset{2}{\text{KI}} \rightarrow \overset{1}{\text{PbI}_2} + \overset{2}{\text{KNO}_3}$
- 10  $\overset{1}{\text{Ca(OH)}_2} + \overset{2}{\text{HNO}_3} \rightarrow \overset{1}{\text{Ca(NO}_3)_2} + \overset{2}{\text{H}_2\text{O}}$
- 11  $\overset{2}{\text{Na}} + \overset{2}{\text{H}_2\text{O}} \rightarrow \overset{2}{\text{NaOH}} + \overset{1}{\text{H}_2}$
- 12  $\overset{2}{\text{NaHCO}_3} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{Na}_2\text{SO}_4} + \overset{2}{\text{CO}_2} + \overset{2}{\text{H}_2\text{O}}$
- 13  $\overset{3}{(\text{NH}_4)_2\text{CO}_3} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{2}{(\text{NH}_4)_3\text{PO}_4} + \overset{3}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 14  $\overset{1}{\text{Ca}} + \overset{2}{\text{HNO}_3} \rightarrow \overset{1}{\text{Ca(NO}_3)_2} + \overset{1}{\text{H}_2}$
- 15  $\overset{2}{\text{KOH}} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{K}_2\text{SO}_4} + \overset{2}{\text{H}_2\text{O}}$
- 16  $\overset{2}{\text{KHCO}_3} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{K}_2\text{SO}_4} + \overset{2}{\text{H}_2\text{O}} + \overset{2}{\text{CO}_2}$
- 17  $\overset{1}{\text{AgNO}_3} + \overset{1}{\text{NaCl}} \rightarrow \overset{1}{\text{AgCl}} + \overset{1}{\text{NaNO}_3}$
- 18  $\overset{1}{\text{CaCO}_3} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{CaCl}_2} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 19  $\overset{3}{\text{Mg}} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Mg}_3(\text{PO}_4)_2} + \overset{3}{\text{H}_2}$
- 20  $\overset{1}{\text{Al(OH)}_3} + \overset{3}{\text{HCl}} \rightarrow \overset{1}{\text{AlCl}_3} + \overset{3}{\text{H}_2\text{O}}$
- 1  $\overset{1}{\text{Ca(OH)}_2} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{CaCl}_2} + \overset{2}{\text{H}_2\text{O}}$
- 2  $\overset{1}{\text{Mg}} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{MgCl}_2} + \overset{1}{\text{H}_2}$
- 3  $\overset{3}{(\text{NH}_4)_2\text{CO}_3} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{2}{(\text{NH}_4)_3\text{PO}_4} + \overset{3}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 4  $\overset{2}{\text{KOH}} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{K}_2\text{SO}_4} + \overset{2}{\text{H}_2\text{O}}$
- 5  $\overset{1}{\text{Al(OH)}_3} + \overset{1}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{AlPO}_4} + \overset{3}{\text{H}_2\text{O}}$
- 6  $\overset{1}{\text{Ca}} + \overset{2}{\text{HCl}} \rightarrow \overset{1}{\text{CaCl}_2} + \overset{1}{\text{H}_2}$
- 7  $\overset{1}{\text{K}_2\text{CO}_3} + \overset{2}{\text{HNO}_3} \rightarrow \overset{2}{\text{KNO}_3} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 8  $\overset{1}{\text{Ca(OH)}_2} + \overset{1}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{CaSO}_4} + \overset{2}{\text{H}_2\text{O}}$
- 9  $\overset{3}{\text{NaHCO}_3} + \overset{1}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Na}_3\text{PO}_4} + \overset{3}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 10  $\overset{1}{\text{AlCl}_3} + \overset{3}{\text{AgNO}_3} \rightarrow \overset{3}{\text{AgCl}} + \overset{1}{\text{Al(NO}_3)_3}$
- 11  $\overset{1}{\text{Sn}} + \overset{2}{\text{HNO}_3} \rightarrow \overset{1}{\text{Sn(NO}_3)_2} + \overset{1}{\text{H}_2}$
- 12  $\overset{3}{\text{Ca(OH)}_2} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Ca}_3(\text{PO}_4)_2} + \overset{6}{\text{H}_2\text{O}}$
- 13  $\overset{1}{\text{Na}_2\text{CO}_3} + \overset{2}{\text{HNO}_3} \rightarrow \overset{2}{\text{NaNO}_3} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 14  $\overset{3}{\text{Mg}} + \overset{2}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{Mg}_3(\text{PO}_4)_2} + \overset{3}{\text{H}_2}$
- 15  $\overset{1}{\text{Al(OH)}_3} + \overset{3}{\text{HCl}} \rightarrow \overset{1}{\text{AlCl}_3} + \overset{3}{\text{H}_2\text{O}}$
- 16  $\overset{3}{(\text{NH}_4)_2\text{CO}_3} + \overset{2}{\text{HNO}_3} \rightarrow \overset{2}{\text{NH}_4\text{NO}_3} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 17  $\overset{3}{\text{KHCO}_3} + \overset{1}{\text{H}_3\text{PO}_4} \rightarrow \overset{1}{\text{K}_3\text{PO}_4} + \overset{1}{\text{H}_2\text{O}} + \overset{3}{\text{CO}_2}$
- 18  $\overset{1}{\text{Mg}} + \overset{2}{\text{HNO}_3} \rightarrow \overset{1}{\text{Mg(NO}_3)_2} + \overset{1}{\text{H}_2}$
- 19  $\overset{1}{\text{K}_2\text{CO}_3} + \overset{2}{\text{HNO}_3} \rightarrow \overset{2}{\text{KNO}_3} + \overset{1}{\text{H}_2\text{O}} + \overset{1}{\text{CO}_2}$
- 20  $\overset{2}{\text{Al(OH)}_3} + \overset{3}{\text{H}_2\text{SO}_4} \rightarrow \overset{1}{\text{Al}_2(\text{SO}_4)_3} + \overset{6}{\text{H}_2\text{O}}$