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| Ammonium bromide |  | Magnesium sulfide |  |  | Sodium fluoride  NAME: |  | Potassium chloride |  |
| Calcium sulfate |  | Zinc carbonate |  |  | Sliver bromide |  | Ammonium iodide |  |
| Barium bicarbonate |  | Iron (II) bisulfate |  |  | Mercury (I) oxide |  | Hydrogen sulfide |  |
| Cobalt (II) nitrate |  | Magnesium phosphate |  |  | Rubidium sulfate |  | Calcium carbonate |  |
| Strontium fluoride |  | Ammonium chloride |  |  | Zinc bicarbonate |  | Barium hydrogensulfate |  |
| Lithium oxide |  | Calcium sulfide |  |  | Lithium nitrate |  | Cobalt (II) hydroxide |  |
| Zinc sulfate |  | Barium carbonate |  |  | Mercury (II) phosphate |  | Sodium chloride |  |
| Iron (II) bicarbonate |  | Cobalt (II) bisulfate |  |  | Potassium bromide |  | Caesium iodide |  |
| Mercury (II) nitrate |  | Manganese dihydrogenphosphate |  |  | Mercury (I) sulfide |  | Sulfuric acid |  |
| Aluminium phosphate |  | Ammonium fluoride |  |  | Magnesium carbonate |  | Calcium bicarbonate |  |
| Magnesium iodide |  | Copper oxide |  |  | Zinc bisulfate |  | Barium nitrate |  |
| Zinc sulfide |  | Barium sulfate |  |  | Rubidium phosphate |  | Iron (II) hydroxide |  |
| Iron (II) carbonate |  | Cobalt (II) Hydrogencarbonate |  |  | Sodium bromide |  | Potassium iodide |  |
| Mercury (II) bisulfate |  | Magnesium fluoride |  |  | Silver oxide |  | Ammonium sulfide |  |
| Calcium iodide |  | Zinc oxide |  |  | Mercury (I) sulfate |  | Magnesium bicarbonate |  |
| Barium sulfide |  | Iron (II) sulfate |  |  | Calcium bisulfate |  | Zinc nitrate |  |
| Magnesium chloride |  | Cobalt (III) carbonate |  |  | Barium hydroxide |  | Iron (II) phosphate |  |
| Manganese bisulfate |  | Magnesium bromide |  |  | Sodium iodide |  | Potassium oxide |  |
| Aluminium hydroxide |  | Iron (III) phosphate |  |  | Nickel sulfide |  | Ammonium sulfate |  |
| Manganese nitrate |  | Calcium bromide |  |  | Mercury (I) carbonate |  | Magnesium bisulfate |  |
| Zinc iodide |  | Barium oxide |  |  | Calcium nitrate |  | Zinc hydroxide |  |

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| Iron (III) bicarbonate |  | Iron (II) fluoride |  |  | Iron (II) sulfide |  | Cobalt (II) sulfate |  |
| Cobalt (II) chloride |  | Manganese oxide |  |  | Manganese bicarbonate |  | Rubidium bisulfate |  |
| Aluminium sulfide |  | Iron (III) sulfate |  |  | Iron (III) nitrate |  | Chromium (III) hydroxide |  |
| Chromium (III) carbonate |  | Cobalt (II) fluoride |  |  | Copper (II) fluoride |  | Zinc permanganate |  |
| Manganese bromide |  | Aluminium oxide |  |  | Barium iodide |  | Aluminum nitrate |  |
| Iron (III) sulfide |  | Nickel sulfate |  |  | Iron (III) hydroxide |  | Chromium (III) phosphate |  |
| Manganese oxalate |  | Aluminium iodide |  |  | Calcium chloride |  | Iron (II) oxide |  |
| Iron (III) oxide |  | Chromium (III) sulfite |  |  | Cobalt (II) sulfide |  | Manganese carbonate |  |
| Manganese fluoride |  | Aluminium bromide |  |  | Aluminium bicarbonate |  | Iron (III) chromate |  |
| Iron (III) iodide |  | Chromium (III) sulfide |  |  | Cobalt (III) sulfite |  | Manganese oxide |  |
| Aluminium chloride |  | Lead bromide |  |  | Barium bromide |  | Iron (II) iodide |  |
| Chromium (III) iodide |  | Water |  |  | Cobalt (II) oxide |  | Manganese sulfate |  |
| Carbon monoxide |  | Carbon dioxide |  |  | Iron (III) ethanoate |  | Chromium (III) chloride |  |
| Sulfur dioxide |  | Nitrogen dioxide |  |  | Iron (II) bromide |  | Strontium iodide |  |
| Hydrochloric acid |  | Sulfuric acid |  |  | Manganese oxide |  | Lead chloride |  |
| Hydrogen bromide |  | Hydrogen iodide |  |  | Manganese sulfide |  | Aluminium sulfate |  |
| Hydrogen fluoride |  | Nitric acid |  |  | Iron (III) carbonate |  | Barium chloride |  |
| Sodium hydroxide |  | Ammonia |  |  | Aluminium carbonate |  | Barium nitrite |  |
| Sodium cyanide |  | Calcium ethanoate |  |  | Chromium (III) dichromate |  | Iron (II) chloride |  |
| Acetic acid/  Ethanoic acid |  | Ammonium hydroxide |  |  | Caesium bromide |  | Aluminium fluoride |  |
| Hydrogen gas |  | Oxygen gas |  |  | Iron (III) chloride |  | Chromium (III) bromide |  |

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| Barium nitride |  | Caesium oxide |  |  | Write **and** balance the following equations: (on a new sheet) |
| Potassium sulfide |  | Silver sulfate |  | 1 | Potassium bicarbonate + nitric acid → potassium nitrate + water + carbon dioxide |
| Strontium carbonate |  | Manganese nitrate |  | 2 | Aluminum bicarbonate → aluminium oxide + water + carbon dioxide |
| Calcium hydroxide |  | Zinc phosphate |  | 3 | Iron (III) carbonate + hydrochloric acid → iron (III) chloride + water + carbon dioxide |
| Sodium sulfide |  | Potassium hydrogenphosphate |  | 4 | Copper (II) sulfate + iron → iron (II) sulfate + copper |
| Silver carbonate |  | Ammonium bicarbonate |  | 5 | Ammonium hydroxide + sulfuric acid → ammonium sulfate + water |
| Nitric acid |  | Magnesium hydroxide |  | 6 | Chromium (III) hydroxide + sulfuric acid → chromium (III) sulfate + water |
| Calcium phosphate |  | Sodium sulfate |  | 7 | Iron (III) oxide + carbon → iron + carbon dioxide |
| Potassium carbonate |  | Silver dihydrogenphosphate |  | 8 | Ammonium bicarbonate → ammonium carbonate + water + carbon dioxide |
| Ammonium oxalate |  | Magnesium phosphate |  | 9 | Potassium + water → potassium hydroxide + hydrogen gas |
| Sodium carbonate |  | Potassium sulfite |  | 10 | Sodium hydroxide + sulfuric acid → sodium sulfate + water |
| Silver bisulfate |  | Ammonium sulfide |  | 11 | Magnesium + oxygen gas → magnesium oxide |
| Phosphoric acid |  | Sodium bicarbonate |  | 12 | Sodium + water → sodium hydroxide + hydrogen gas |
| Silver acetate |  | Silver nitrate |  | 13 | Aluminium carbonate + hydrochloric acid → aluminium chloride + water + CO2 |
| Ammonium hydroxide |  | Mercury (I) phosphate |  | 14 | Zinc oxide + phosphoric acid → zinc phosphate + water |
| Sodium bisulfate |  | Potassium nitrate |  | 15 | Ammonium carbonate + nitric acid → ammonium nitrate + carbon dioxide + water |
| Ammonium phosphate |  | Sodium nitrate |  |  |  |
| Potassium hydroxide |  | Silver nitrite |  |  |  |
| Rubidium hydroxide |  | Potassium phosphate |  |  |  |
| Sodium phosphate |  | Chromium (III) fluoride |  |  |  |
| Potassium fluoride |  | Silver chloride |  |  |  |

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|  | Balance the following equations |  |  |  |  |
| 1 | NaOH + H3PO4 → Na3PO4 + H2O | 1 | NaOH + H2SO4 → Na2SO4 + H2O | 1 | Ca(OH)2 + HCl → CaCl2 + H2O |
| 2 | Mg(OH)2 + HCl → MgCl2 + H2O | 2 | KOH + H3PO4 → K3PO4 + H2O | 2 | Mg + HCl → MgCl2 + H2 |
| 3 | CaCO3 + H3PO4 → Ca3(PO4)2 + H2O + CO2 | 3 | Mg + O2 → MgO | 3 | (NH4)2CO3 + H3PO4 → (NH4)3PO4 + H2O + CO2 |
| 4 | K2CO3 + HCl → KCl + H2O + CO2 | 4 | Na2CO3 + HCl → NaCl + CO2 + H2O | 4 | KOH + H2SO4 → K2SO4 + H2O |
| 5 | Mg(OH)2 + H3PO4 → Mg3(PO4)2 + H2O | 5 | Fe2O3 + C → Fe + CO2 | 5 | Al(OH)3 + H3PO4 → AlPO4 + H2O |
| 6 | Ca + O2 → CaO | 6 | NH4OH + H2SO4 → (NH4)2SO4 + H­2O | 6 | Ca + HCl → CaCl2 + H2 |
| 7 | Al2O3 + Fe → Fe2O3 + Al | 7 | Zn + HCl → ZnCl2 + H2 | 7 | K2CO3 + HNO3 → KNO3 + H2O + CO­2 |
| 8 | K + H2O → KOH + H2 | 8 | NaHCO3 → Na2CO3 + CO2 + H2O | 8 | Ca(OH)2 + H2­SO4 → CaSO4 + H2O |
| 9 | ZnO + HCl → ZnCl2 + H2O | 9 | Pb(NO3)2 + KI → PbI2 + KNO3 | 9 | NaHCO3 + H3PO4 → Na3PO4 + H2O + CO2 |
| 10 | Al + O2 → Al2O3 | 10 | Ca(OH)2 + HNO3 → Ca(NO3)2 + H2O | 10 | AlCl3 + AgNO3 → AgCl + Al(NO3)3 |
| 11 | Ca + H2O → Ca(OH)2 + H2 | 11 | Na + H2O → NaOH + H2 | 11 | Sn + HNO3 → Sn(NO3­)2 + H2 |
| 12 | NiS + O2 → NiO + SO2 | 12 | NaHCO3 + H2SO4 → Na2SO4 + CO2 + H2O | 12 | Ca(OH)2 + H3PO4 → Ca3(PO4)2 + H2O |
| 13 | Na + O2 → Na2O2 | 13 | (NH4)2CO3 + H3PO4 → (NH4)3PO4 + H2O + CO2 | 13 | Na2CO3 + HNO3 → NaNO3 + H2O + CO­2 |
| 14 | Na2O + HCl → NaCl + H2O | 14 | Ca + HNO3 → Ca(NO3)2 + H2 | 14 | Mg + H3PO4 → Mg3(PO4)2 + H2 |
| 15 | Al2(CO­3)3 → Al2O3 + CO2 | 15 | KOH + H2SO4 → K2SO4 + H2O | 15 | Al(OH)3 + HCl → AlCl3 + H2O |
| 16 | Cr2(CO3)3 + H2SO4 →Cr2(SO­4)3 + H2O + CO2 | 16 | KHCO3 + H2SO4 → K2SO4 + H2O + CO2 | 16 | (NH4)2CO3 + HNO3 → NH4NO3 + H2O + CO2 |
| 17 | KClO3 → KCl + O2 | 17 | AgNO3 + NaCl → AgCl + NaNO3 | 17 | KHCO3 H3PO4 → K3PO4 + H2O + CO2 |
| 18 | Na2O2 + H2O → NaOH + O­2 | 18 | CaCO3 + HCl → CaCl2 + H2O + CO2 | 18 | Mg + HNO3 → Mg(NO3)2 + H2 |
| 19 | Al(OH)3 + H2SO4 → Al2(SO4)3 + H2O | 19 | Mg + H3PO4 → Mg3(PO4)2 + H2 | 19 | K2CO3 + HNO3 → KNO3 + H2O + CO2 |
| 20 | H2 + O2 → H2O | 20 | Al(OH)3 + HCl → AlCl3 + H2O | 20 | Al(OH)3 + H2SO4 → Al2(SO4)3 + H2O |