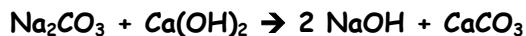


# Balancing Chemical Equations

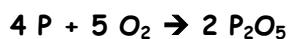
1. sodium carbonate + calcium hydroxide → sodium hydroxide + calcium carbonate



2. carbon dioxide + water → carbonic acid



3. phosphorus + oxygen → diphosphorus pentoxide



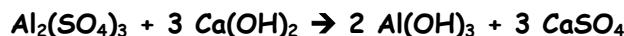
4. sodium + water → sodium hydroxide + hydrogen



5. zinc + sulphuric acid → zinc sulfate + hydrogen



6. aluminum sulfate + calcium hydroxide → aluminum hydroxide + calcium sulfate



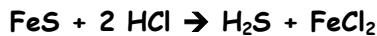
7. calcium oxide + water → calcium hydroxide



8. iron + copper(I) nitrate → iron(II) nitrate + copper



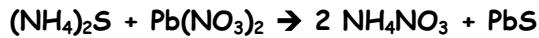
9. iron(II) sulfide + hydrochloric acid → hydrosulfuric acid + iron(II) chloride



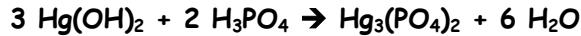
10. potassium oxide + water → potassium hydroxide



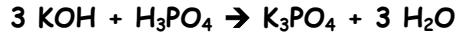
11. ammonium sulfide + lead(II) nitrate → ammonium nitrate + lead(II) sulfide



12. mercuric hydroxide + phosphoric acid → mercuric phosphate + water



13. potassium hydroxide + phosphoric acid → potassium phosphate + water



14. calcium chloride + nitric acid → calcium nitrate + hydrochloric acid



15. potassium carbonate + barium chloride → potassium chloride + barium carbonate



## Balancing Chemical Equations - continued

16. sulfur dioxide + water → sulfurous acid



17. sodium carbonate + hydrochloric acid → sodium chloride + water + carbon dioxide



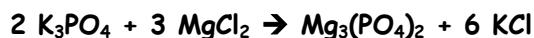
18. magnesium + nitric acid → magnesium nitrate + hydrogen



19. aluminum + ferric oxide → aluminum oxide + iron



20. potassium phosphate + magnesium chloride → magnesium phosphate + potassium chloride



21. ammonia + oxygen → nitrogen + water



22. calcium carbonate → calcium oxide + carbon dioxide



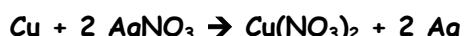
23. sodium chloride + sulfuric acid → sodium sulfate + hydrochloric acid



24. chromium + hydrochloric acid <sup>TM</sup> chromium(II) chloride + hydrogen



25. copper + silver nitrate <sup>TM</sup> copper(II) nitrate + silver



26. copper + sulfuric acid <sup>TM</sup> copper(II) sulfate + sulfur dioxide + water



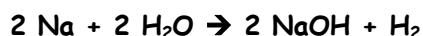
27. aluminum sulfate + ammonium bromide <sup>TM</sup> aluminum bromide + ammonium sulfate



28. chlorine + sodium hydroxide <sup>TM</sup> sodium chloride + sodium hypochlorite + water



29. sodium + water → sodium hydroxide + hydrogen



30. lead(II) nitrate → lead(II) oxide + nitrogen dioxide + oxygen



## Balancing Chemical Equations - continued

31. cupric oxide + ammonia  $\rightarrow$  copper + water + nitrogen



32. sodium bicarbonate + sulfuric acid  $\rightarrow$  sodium sulfate + water + carbon dioxide



33. ammonia + oxygen  $\rightarrow$  nitrogen monoxide + water



34. potassium carbonate + hydrofluoric acid  $\rightarrow$  potassium fluoride + carbon dioxide + water



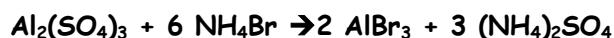
35. fluorine + sodium hydroxide  $\rightarrow$  sodium fluoride + oxygen + water



36. magnesium nitrate + calcium iodide  $\rightarrow$  calcium nitrate + magnesium iodide



37. aluminum sulfate + ammonium bromide  $\rightarrow$  aluminum bromide + ammonium sulfate



38. potassium fluoride + barium bromide  $\rightarrow$  barium fluoride + potassium bromide



39. cupric nitrate + ammonium hydroxide  $\rightarrow$  cupric hydroxide + ammonium nitrate



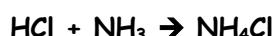
40. sodium nitrate  $\rightarrow$  sodium nitrite + oxygen



41. ammonia + sulfuric acid  $\rightarrow$  ammonium sulfate



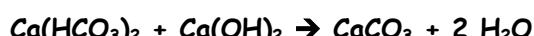
42. hydrochloric acid + ammonia  $\rightarrow$  ammonium chloride



43. aluminum + hydrochloric acid  $\rightarrow$  aluminum chloride + hydrogen



44. calcium bicarbonate + calcium hydroxide  $\rightarrow$  calcium carbonate + water



45. water + diphosphorus pentoxide  $\rightarrow$  phosphoric acid



## Balancing Chemical Equations - continued

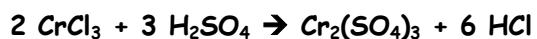
46. chlorine + sodium hydroxide  $\rightarrow$  sodium chloride + sodium hypochlorite + water



47. plumbous nitrate  $\rightarrow$  plumbous oxide + nitrogen dioxide + oxygen



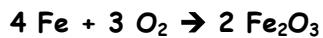
48. chromium(III) chloride + sulfuric acid  $\rightarrow$  chromium(III) sulfate + hydrochloric acid



49. magnesium bicarbonate + hydrochloric acid  $\rightarrow$  magnesium chloride + water + carbon dioxide



50. iron + oxygen  $\rightarrow$  ferric oxide



51. ferric oxide + carbon monoxide  $\rightarrow$  iron + carbon dioxide



52. calcium chloride + chromium(III) nitrate  $\rightarrow$  calcium nitrate + chromium(III) chloride



53. zinc sulfide + oxygen  $\rightarrow$  zinc oxide + sulfur dioxide



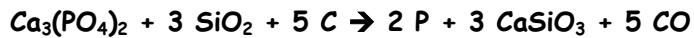
54. iron(III) hydroxide  $\rightarrow$  iron(III) oxide + water



55. aluminum sulfate + sodium bicarbonate  $\rightarrow$  aluminum hydroxide + sodium sulfate + carbon dioxide



56. calcium phosphate + silicon dioxide + carbon  $\rightarrow$  phosphorus + calcium silicate + carbon monoxide



57. magnesium nitride + water  $\rightarrow$  magnesium hydroxide + ammonia



58. arsenic + oxygen  $\rightarrow$  diarsenic trioxide



59. cupric oxide + ammonia  $\rightarrow$  copper + water + nitrogen

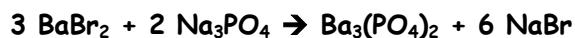


60. ammonium dichromate  $\rightarrow$  chromium(III) oxide + nitrogen + water



## Balancing Chemical Equations - continued

61. barium bromide + sodium phosphate  $\rightarrow$  barium phosphate + sodium bromide



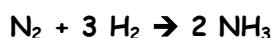
62. lead(II) sulfide + lead(II) oxide  $\rightarrow$  lead + sulfur dioxide



63. aluminum hydroxide  $\rightarrow$  aluminum oxide + water



64. nitrogen + hydrogen  $\rightarrow$  ammonia



65. silicon dioxide + hydrofluoric acid  $\rightarrow$  water + silicon tetrafluoride



66. sodium hypochlorite  $\rightarrow$  sodium chloride + sodium chlorate



67. zinc arsenide + hydrochloric acid  $\rightarrow$  arsine ( $\text{AsH}_3$ ) + zinc chloride



68. diboron trioxide + magnesium  $\rightarrow$  magnesium oxide + boron



69. iron(II) cyanide + potassium cyanide  $\rightarrow$  potassium ferrocyanide

