

## Balancing Chemical Equations Worksheet

1. \_\_\_\_\_ H<sub>2</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ H<sub>2</sub>O
2. \_\_\_\_\_ N<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub> → \_\_\_\_\_ NH<sub>3</sub>
3. \_\_\_\_\_ S<sub>8</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ SO<sub>3</sub>
4. \_\_\_\_\_ N<sub>2</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ N<sub>2</sub>O
5. \_\_\_\_\_ HgO → \_\_\_\_\_ Hg + \_\_\_\_\_ O<sub>2</sub>
6. \_\_\_\_\_ CO<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O → \_\_\_\_\_ C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> + \_\_\_\_\_ O<sub>2</sub>
7. \_\_\_\_\_ Zn + \_\_\_\_\_ HCl → \_\_\_\_\_ ZnCl<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>
8. \_\_\_\_\_ SiCl<sub>4</sub> + \_\_\_\_\_ H<sub>2</sub>O → \_\_\_\_\_ H<sub>4</sub>SiO<sub>4</sub> + \_\_\_\_\_ HCl
9. \_\_\_\_\_ Na + \_\_\_\_\_ H<sub>2</sub>O → \_\_\_\_\_ NaOH + \_\_\_\_\_ H<sub>2</sub>
10. \_\_\_\_\_ H<sub>3</sub>PO<sub>4</sub> → \_\_\_\_\_ H<sub>4</sub>P<sub>2</sub>O<sub>7</sub> + \_\_\_\_\_ H<sub>2</sub>O
11. \_\_\_\_\_ C<sub>10</sub>H<sub>16</sub> + \_\_\_\_\_ Cl<sub>2</sub> → \_\_\_\_\_ C + \_\_\_\_\_ HCl
12. \_\_\_\_\_ CO<sub>2</sub> + \_\_\_\_\_ NH<sub>3</sub> → \_\_\_\_\_ OC(NH<sub>2</sub>)<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O
13. \_\_\_\_\_ Si<sub>2</sub>H<sub>3</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ SiO<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O<sub>3</sub>
14. \_\_\_\_\_ Al(OH)<sub>3</sub> + \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> → \_\_\_\_\_ Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + \_\_\_\_\_ H<sub>2</sub>O
15. \_\_\_\_\_ Fe + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ Fe<sub>2</sub>O<sub>3</sub>
16. \_\_\_\_\_ Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + \_\_\_\_\_ KOH → \_\_\_\_\_ K<sub>2</sub>SO<sub>4</sub> + \_\_\_\_\_ Fe(OH)<sub>3</sub>
17. \_\_\_\_\_ C<sub>7</sub>H<sub>6</sub>O<sub>2</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ CO<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O
18. \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> + \_\_\_\_\_ HI → \_\_\_\_\_ H<sub>2</sub>S + \_\_\_\_\_ I<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O
19. \_\_\_\_\_ FeS<sub>2</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ Fe<sub>2</sub>O<sub>3</sub> + \_\_\_\_\_ SO<sub>2</sub>
20. \_\_\_\_\_ Al + \_\_\_\_\_ FeO → \_\_\_\_\_ Al<sub>2</sub>O<sub>3</sub> + \_\_\_\_\_ Fe
21. \_\_\_\_\_ Fe<sub>2</sub>O<sub>3</sub> + \_\_\_\_\_ H<sub>2</sub> → \_\_\_\_\_ Fe + \_\_\_\_\_ H<sub>2</sub>O
22. \_\_\_\_\_ Na<sub>2</sub>CO<sub>3</sub> + \_\_\_\_\_ HCl → \_\_\_\_\_ NaCl + \_\_\_\_\_ H<sub>2</sub>O + \_\_\_\_\_ CO<sub>2</sub>
23. \_\_\_\_\_ K + \_\_\_\_\_ Br<sub>2</sub> → \_\_\_\_\_ KBr
24. \_\_\_\_\_ C<sub>7</sub>H<sub>16</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ CO<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub>O
25. \_\_\_\_\_ P<sub>4</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ P<sub>2</sub>O<sub>5</sub>

26. Dicarbon dihydride + Oxygen → Carbon dioxide + Water
27. Potassium oxide + Water → Potassium hydroxide
28. Hydrogen peroxide → Water + Oxygen
29. Aluminum + Oxygen → Aluminum oxide
30. Sodium peroxide + Water → Sodium hydroxide + oxygen
31. Silicon dioxide + Hydrogen fluoride → Silicon tetrafluoride + Water
32. Carbon + water → Carbon monoxide + Hydrogen
33. Potassium chlorate → Potassium chloride + Oxygen
34. Potassium chlorate → Potassium perchlorate + Potassium chloride
35. Aluminum sulfate + Calcium hydroxide → Aluminum hydroxide + Calcium sulfate
36. Tetraphosphorus decoxide + Water → Hydrogen phosphate
37. Iron III chloride + Ammonium hydroxide → Iron III hydroxide + Ammonium chloride
38. Antimony + Oxygen → Tetrantimony Hexoxide
39. Tricarbon octahydride + Oxygen → Carbon dioxide + water
40. Dinitrogen pentoxide + Water → Hydrogen nitrate
41. Nitrogen trihydride + Nitrogen monoxide → Nitrogen + Water
42. Aluminum + Hydrogen chloride → Aluminum chloride + Hydrogen
43. Phosphorus pentachloride + water → Hydrogen chloride + Hydrogen phosphate
44. Magnesium + Nitrogen → Magnesium nitride
45. Iron + Water → Iron III oxide + Hydrogen
46. Sodium hydroxide + Chlorine → Sodium chloride + Sodium hypochlorite + water
47. Lithium oxide + Water → Lithium hydroxide
48. Ammonium nitrate → Dinitrogen monoxide + water
49. Lead II nitrate → Lead II oxide + Nitrogen dioxide + Oxygen
50. Calcium chlorate → Calcium chloride + Oxygen