

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