

Balance these equations:

1. $\underline{\hspace{1cm}} \text{Ca(OH)}_{2(s)} + \underline{\hspace{1cm}} \text{HCl}_{(aq)} \rightarrow \underline{\hspace{1cm}} \text{CaCl}_{2(aq)} + \underline{\hspace{1cm}} \text{H}_2\text{O}_{(l)}$
2. $\underline{\hspace{1cm}} \text{FeCl}_{3(aq)} + \underline{\hspace{1cm}} (\text{NH}_4)_2\text{S}_{(aq)} \rightarrow \underline{\hspace{1cm}} \text{Fe}_2\text{S}_{3(s)} + \underline{\hspace{1cm}} \text{NH}_4\text{Cl}_{(aq)}$
3. $\underline{\hspace{1cm}} \text{KNO}_{3(s)} \rightarrow \underline{\hspace{1cm}} \text{KNO}_{2(s)} + \underline{\hspace{1cm}} \text{O}_{2(g)}$
4. $\underline{\hspace{1cm}} \text{Ag}_2\text{O}_{(s)} \rightarrow \underline{\hspace{1cm}} \text{Ag}_{(s)} + \underline{\hspace{1cm}} \text{O}_{2(g)}$
5. $\underline{\hspace{1cm}} \text{C}_4\text{H}_{10(g)} + \underline{\hspace{1cm}} \text{O}_{2(g)} \rightarrow \underline{\hspace{1cm}} \text{CO}_{2(g)} + \underline{\hspace{1cm}} \text{H}_2\text{O}_{(g)}$
6. $\underline{\hspace{1cm}} \text{Br}_{2(aq)} + \underline{\hspace{1cm}} \text{KI}_{(aq)} \rightarrow \underline{\hspace{1cm}} \text{I}_{2(aq)} + \underline{\hspace{1cm}} \text{KBr}_{(aq)}$
7. $\underline{\hspace{1cm}} \text{AsCl}_{3(aq)} + \underline{\hspace{1cm}} \text{H}_2\text{S}_{(aq)} \rightarrow \underline{\hspace{1cm}} \text{As}_2\text{S}_{3(s)} + \underline{\hspace{1cm}} \text{HCl}$
8. $\underline{\hspace{1cm}} \text{C}_5\text{H}_{12}\text{O}_{(l)} + \underline{\hspace{1cm}} \text{O}_{2(g)} \rightarrow \underline{\hspace{1cm}} \text{CO}_{2(g)} + \underline{\hspace{1cm}} \text{H}_2\text{O}_{(g)}$
9. $\underline{\hspace{1cm}} \text{Al}_{(s)} + \underline{\hspace{1cm}} \text{H}_2\text{SO}_{4(aq)} \rightarrow \underline{\hspace{1cm}} \text{Al}_2(\text{SO}_4)_{3(aq)} + \underline{\hspace{1cm}} \text{H}_2(g)$
10. $\underline{\hspace{1cm}} \text{Fe}_{(s)} + \underline{\hspace{1cm}} \text{Cl}_{2(g)} \rightarrow \underline{\hspace{1cm}} \text{FeCl}_{3(s)}$
11. $\underline{\hspace{1cm}} \text{C}_5\text{H}_{12} + \underline{\hspace{1cm}} \text{O}_2 \rightarrow \underline{\hspace{1cm}} \text{CO}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
12. $\underline{\hspace{1cm}} \text{NH}_3 + \underline{\hspace{1cm}} \text{O}_2 \rightarrow \underline{\hspace{1cm}} \text{N}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
13. $\underline{\hspace{1cm}} \text{KOH} + \underline{\hspace{1cm}} \text{H}_2\text{SO}_4 \rightarrow \underline{\hspace{1cm}} \text{K}_2\text{SO}_4 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
14. $\underline{\hspace{1cm}} \text{N}_2\text{H}_4 + \underline{\hspace{1cm}} \text{N}_2\text{O}_4 \rightarrow \underline{\hspace{1cm}} \text{N}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
15. $\underline{\hspace{1cm}} \text{F}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O} \rightarrow \underline{\hspace{1cm}} \text{HF} + \underline{\hspace{1cm}} \text{O}_2$
16. $\underline{\hspace{1cm}} \text{Na}_2\text{O} + \underline{\hspace{1cm}} \text{H}_2\text{O} \rightarrow \underline{\hspace{1cm}} \text{NaOH}$
17. $\underline{\hspace{1cm}} \text{Na}_2\text{CO}_3 + \underline{\hspace{1cm}} \text{HNO}_3 \rightarrow \underline{\hspace{1cm}} \text{H}_2\text{O} + \underline{\hspace{1cm}} \text{CO}_2 + \underline{\hspace{1cm}} \text{NaNO}_3$
18. $\underline{\hspace{1cm}} \text{Ca}_3\text{P}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O} \rightarrow \underline{\hspace{1cm}} \text{PH}_3 + \underline{\hspace{1cm}} \text{Ca(OH)}_2$
19. $\underline{\hspace{1cm}} \text{IBr} + \underline{\hspace{1cm}} \text{NH}_3 \rightarrow \underline{\hspace{1cm}} \text{NI}_3 + \underline{\hspace{1cm}} \text{NH}_4\text{Br}$
20. $\underline{\hspace{1cm}} \text{NH}_4\text{NO}_3 \rightarrow \underline{\hspace{1cm}} \text{N}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O} + \underline{\hspace{1cm}} \text{O}_2$