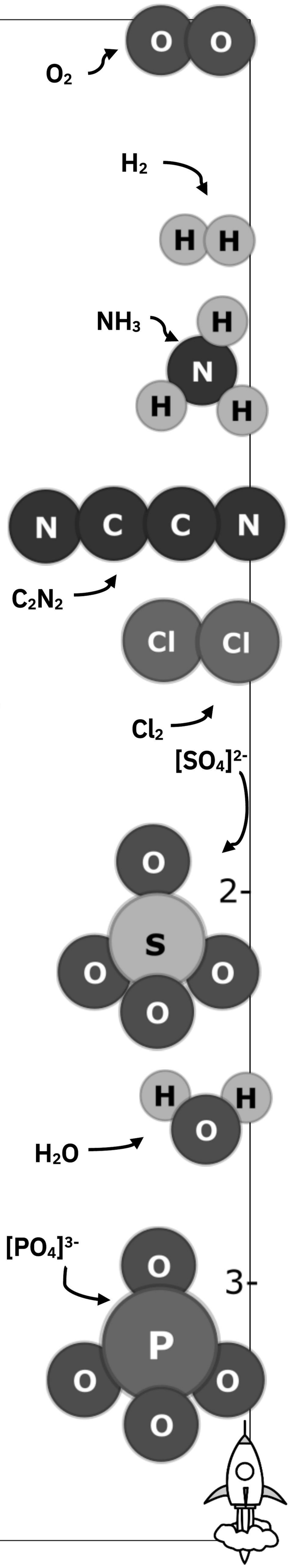
Balancing Chemical Equations 3

Chemistry

Name:

Balance the following chemical equations.

1. $\underline{4}\ OH^- \rightarrow \underline{2}\ H_2O + O_2 + 4\ e^-$
2. $PCl_3 + \underline{3}\ H_2O \rightarrow P(OH)_3 + \underline{3}\ HCl$
3. $P_4O_{10} + \underline{3}\ HCl \rightarrow POCl_3 + \underline{3}HPO_3$
4. $\underline{2}\ Na + \underline{2}\ H_2O \rightarrow \underline{2}\ NaOH + H_2$
5. $\underline{2}\ MgNH_4PO_4 \rightarrow Mg_2P_2O_7 + \underline{2}\ NH_3 + H_2O$
6. $\underline{4}\ NO + \underline{2}\ H_2O + \underline{3}\ O_2 \rightarrow \underline{4}\ HNO_3$
7. $Al(ClO_4)_3 + \underline{3}\ KBr \rightarrow AlBr_3 + \underline{3}\ KClO_4$
8. $\underline{2}\ Cu(CN)_2 \rightarrow \underline{2}\ CuCN + C_2N_2$
9. $\underline{4}\ HCl + MnO_2 \rightarrow MnCl_2 + \underline{2}\ H_2O + Cl_2$
10. $\underline{2}\ NaOH + H_2SO_4 \rightarrow Na_2SO_4 + \underline{2}\ H_2O$
11. $CaHPO_4.2H_2O + \underline{2}\ NaOH + \underline{10}\ H_2O \rightarrow Na_2HPO_4.12H_2O + Ca(OH)_2$
12. $\underline{3}\ FeSO_4 + \underline{2}\ K_3[Fe(CN)_6] \rightarrow Fe_3[Fe(CN)_6]_2 + \underline{3}\ K_2SO_4$
13. $\underline{2}\ MgNH_4PO_4 \rightarrow Mg_2P_2O_7 + \underline{2}\ NH_3 + H_2O$
14. $\underline{2}\ H_3PO_4 + \underline{3}\ BaO \rightarrow \underline{3}\ H_2O + Ba_3(PO_4)_2$
15. $\underline{2}\ AlBr_3 + \underline{3}\ K_2SO_4 \rightarrow \underline{6}\ KBr + Al_2(SO_4)_3$
16. $\underline{2}\ HCN + CuSO_4 \rightarrow H_2SO_4 + Cu(CN)_2$
17. $\underline{4}\ LiH + AlCl_3 \rightarrow LiAlH_4 + \underline{3}\ LiCl$
18. $\underline{2}\ C_{57}H_{110}O_6 + \underline{163}\ O_2 \rightarrow \underline{114}\ CO_2 + \underline{110}\ H_2O$
19. $\underline{2}\ K_2MnF_6 + \underline{4}\ SbF_5 \rightarrow \underline{2}\ MnF_3 + \underline{4}\ KSbF_6 + F_2$
20. $Ba_2XeO_6 + \underline{2}\ H_2SO_4 \rightarrow \underline{2}\ BaSO_4 + \underline{2}\ H_2O + XeO_4$
21. $\underline{2}\ Na_3PO_4 + \underline{3}\ CaCl_2 \rightarrow \underline{6}\ NaCl + Ca_3(PO_4)_2$
22. $NaBrO_3 + \underline{5}\ NaBr + \underline{3}\ H_2SO_4 \rightarrow \underline{3}\ Na_2SO_4 + \underline{3}\ Br_2 + \underline{3}\ H_2O$
23. $\underline{2}\ C_7H_{10}N + \underline{21}\ O_2 \rightarrow \underline{14}\ CO_2 + \underline{10}\ H_2O + \underline{2}\ NO_2$
24. $CaHPO_4.2H_2O + \underline{2}\ NaOH + \underline{10}\ H_2O \rightarrow Na_2HPO_4.12H_2O + Ca(OH)_2$

UNIQUESTUDYONLINE.COM