2C.4 Supplement—Balancing Equations

1. $2\,H_2 + O_2 \rightarrow 2\,H_2O$
2. $2\,Mg + O_2 \rightarrow 2\,MgO$
3. $Ca + 2\,H_2O \rightarrow Ca(OH)_2 + H_2$
4. $Cu + 2\,HgNO_3 \rightarrow Cu(NO_3)_2 + 2\,Hg$
5. $C_3H_8 + 5\,O_2 \rightarrow 3\,CO_2 + 4\,H_2O$
6. $2\,Al + 3\,F_2 \rightarrow 2\,AlF_3$
7. $4\,Fe + 3\,O_2 \rightarrow 2\,Fe_2O_3$
8. $Fe_3O_4 + 4\,H_2 \rightarrow 3\,Fe + 4\,H_2O$
9. $4\,HBr + O_2 \rightarrow 2\,Br_2 + 2\,H_2O$
10. $Al_2O_3 + 6\,HCl \rightarrow 2\,AlCl_3 + 3\,H_2O$
11. $3\,NH_4OH + FeCl_3 \rightarrow Fe(OH)_3 + 3\,NH_4Cl$
12. $4\,NH_3 + 5\,O_2 \rightarrow 4\,NO + 6\,H_2O$
13. $I_2 + 10\,HNO_3 \rightarrow 2\,HIO_3 + 10\,NO_2 + 4\,H_2O$ too hard
14. $3\,CaO + P_2O_5 \rightarrow Ca_3(PO_4)_2$
15. $6\,NaOH + Al_2(SO_3)_3 \rightarrow 3\,Na_2SO_3 + 2\,Al(OH)_3$