## **BALANCING EQUATIONS 2**

1) Explain in as much detail as possible what the following balanced equation tells you. You answer should include information from the state symbols.

$$P_4(s) + 5 O_2(g) \rightarrow P_4 O_{10}(s)$$

Now balance the following equations.

2) Mg + 
$$O_2 \rightarrow MgO$$

3) CaO + HCl 
$$\rightarrow$$
 CaCl<sub>2</sub> + H<sub>2</sub>O

4) P + 
$$Cl_2 \rightarrow PCl_3$$

5) 
$$SO_2 + O_2 \rightarrow SO_3$$

6) 
$$CO + O_2 \rightarrow CO_2$$

7) 
$$C_2H_4 + O_2 \rightarrow CO_2 + H_2O_2$$

8) 
$$Fe_2O_3 + CO \rightarrow Fe + CO_2$$

9) 
$$Na_2CO_3 + HCl \rightarrow NaCl + CO_2 + H_2O$$

10) 
$$KMnO_4 + HCl \rightarrow MnCl_2 + KCl + Cl_2 + H_2O$$