

**Science and Environment**  
**Balancing chemical equations**

Balance the following equations using whole numbers as coefficients.

1. Mg + HCl → MgCl<sub>2</sub> + H<sub>2</sub>
2. H<sub>2</sub>O + Cl<sub>2</sub> → HCl + O<sub>2</sub>
3. Fe<sub>2</sub>O<sub>3</sub> + CO → CO<sub>2</sub> + Fe
4. H<sub>2</sub>O<sub>2</sub> → H<sub>2</sub>O + O<sub>2</sub>
5. H<sub>2</sub>SO<sub>4</sub> + NaOH → Na<sub>2</sub>SO<sub>4</sub> + H<sub>2</sub>O
6. CaO + Al → Al<sub>2</sub>O<sub>3</sub> + Ca
7. KI + Pb(NO<sub>3</sub>)<sub>2</sub> → KNO<sub>3</sub> + PbI<sub>2</sub>
8. Ba(OH)<sub>2</sub> + HBr → BaBr<sub>2</sub> + H<sub>2</sub>O
9. CaCO<sub>3</sub> + HCl → CO<sub>2</sub> + CaCl<sub>2</sub> + H<sub>2</sub>O
10. HCl + O<sub>2</sub> → Cl<sub>2</sub> + H<sub>2</sub>O
11. CaCl<sub>2</sub> + Na<sub>2</sub>CO<sub>3</sub> → CaCO<sub>3</sub> + NaCl
12. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> + O<sub>2</sub> → CO<sub>2</sub> + H<sub>2</sub>O
13. NH<sub>3</sub> + O<sub>2</sub> → NO<sub>2</sub> + H<sub>2</sub>O

## Balancing chemical equations

Balance the following equations using whole numbers as coefficients.

