

Solutions

Each answer shows the steps, then the **result**.

2.1

- Decomposition

2.2

- Acid-base (neutralization)

2.3

- Carbon dioxide and water

3.1 B

- synthesis (combination)

3.2

(a)

- decomposition

(b)

- combustion

(c)

- precipitation

3.3

- $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO}_2 + 6\text{H}_2\text{O}$