

Solutions

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

2.1

- removes CO₂: **photosynthesis**
- returns it: **respiration**, combustion or decomposition

2.2

- **respiration** and **combustion** (burning)

3.1 B

- ammonium → nitrate is **nitrification**
- A is N₂ → ammonium; C is nitrate → N₂; D is rotting

3.2

(a)

- carbon passes from plant to consumer when the consumer **eats the plant**

(b)

- burning fossil fuels **releases CO₂** into the air
- **adding** to the amount in the atmosphere