

Solutions

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

2.1

- Photosynthesis

2.2

- Any two: respiration, decomposition, combustion

2.3

- Rocks / fossil fuels (sediments)

3.1 C

- photosynthesis

3.2

(a)

- Burning fossil fuels releases stored carbon as CO_2 far faster than natural processes remove it, raising atmospheric CO_2

(b)

- Deforestation (reduces CO_2 uptake)

3.3

- Humans release CO_2 (burning fossil fuels, deforestation) faster than photosynthesis and the oceans can absorb it, so the net amount in the atmosphere increases