

4.2 Carbon Cycling & Climate Change

Question Paper

Course	DP IB Biology
Section	4. Ecology
Topic	4.2 Carbon Cycling & Climate Change
Difficulty	Easy

Time allowed: 10
Score: /5
Percentage: /100

Question 1

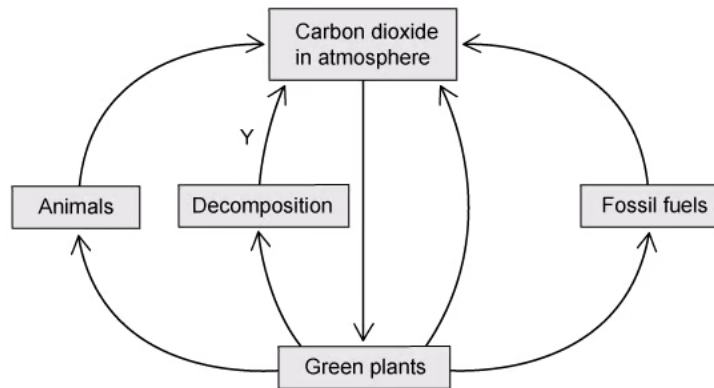
Which of the following gases is **not** a greenhouse gas?

- A. Methane
- B. Sulfur dioxide
- C. Carbon dioxide
- D. Water vapour

[1 mark]

Question 2

The carbon cycle is represented by the diagram below.



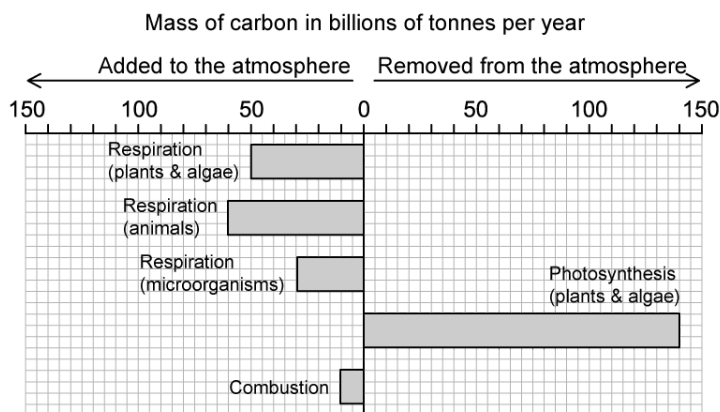
Identify process **Y**.

- A. Photosynthesis
- B. Combustion
- C. Respiration
- D. Fossilisation

[1 mark]

Question 3

What is the total mass of carbon released into the atmosphere from respiration per year?



- A. 60 billion tonnes
- B. 148 billion tonnes
- C. 150 billion tonnes
- D. 140 billion tonnes

[1 mark]

Question 4

A climate change sceptic made the following statement:

'There is no consensus amongst scientists that climate change is real, global warming is a natural and normal phenomenon which has occurred at other points in history'

Which of the following opposes the idea that global warming is a natural phenomenon?

- A. The idea that many factors contribute towards global climate
- B. Data produced by companies involved in global fossil fuel supply shows decreasing greenhouse gas production
- C. Scientific research which links the combustion of fossil fuels with global warming
- D. Published data which shows that rates of global warming have not been consistent over the last 50 years

[1 mark]

Question 5

Which process results in the production of methane gas?

- A. Combustion of fossil fuels
- B. Livestock farming
- C. Deforestation
- D. Ocean acidification

[1 mark]