

(The greenhouse effect and greenhouse gases)

Q1.(2019)

Titan is warmer than the other moons of Saturn because of the greenhouse effect.

How do greenhouse gases trap energy from the sun?

[1 mark]

Tick (✓) **one** box.

All wavelengths of radiation are reflected back to the surface of Titan.

☐

Long wavelength radiation is reflected back to the surface of Titan.

☐

Short wavelength radiation is reflected back to the surface of Titan.

☐

Q2.(2023)

Which **two** gases are greenhouse gases?

[2 marks]

Tick (✓) **two** boxes.

Argon

☐

Carbon dioxide

☐

Nitrogen

☐

Methane

☐

Oxygen

☐

Q3.(2023)

Why are greenhouse gases essential for supporting life on Earth?

[1 mark]

Q4.(2023)

The percentage of greenhouse gases in the Earth's atmosphere today is increasing.
Many scientists think that this increase is causing global climate change.

What is a cause of the greenhouse effect?

Complete the sentence.

[1 mark]

Greenhouse gases absorb long wavelength _____.