

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Global Warming Answers

Name:

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Total Marks:

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Q1: Define what the term global warming means.

A= Average temperature of the earth increasing

(1 mark)

Q2: What is meant by the term carbon dioxide sink and give an example.

A= 1 mark for definition/ 1 mark for example

- Store for carbon dioxide
- Plants/ water

(2 marks)

Q3: Explain why global warming is occurring.

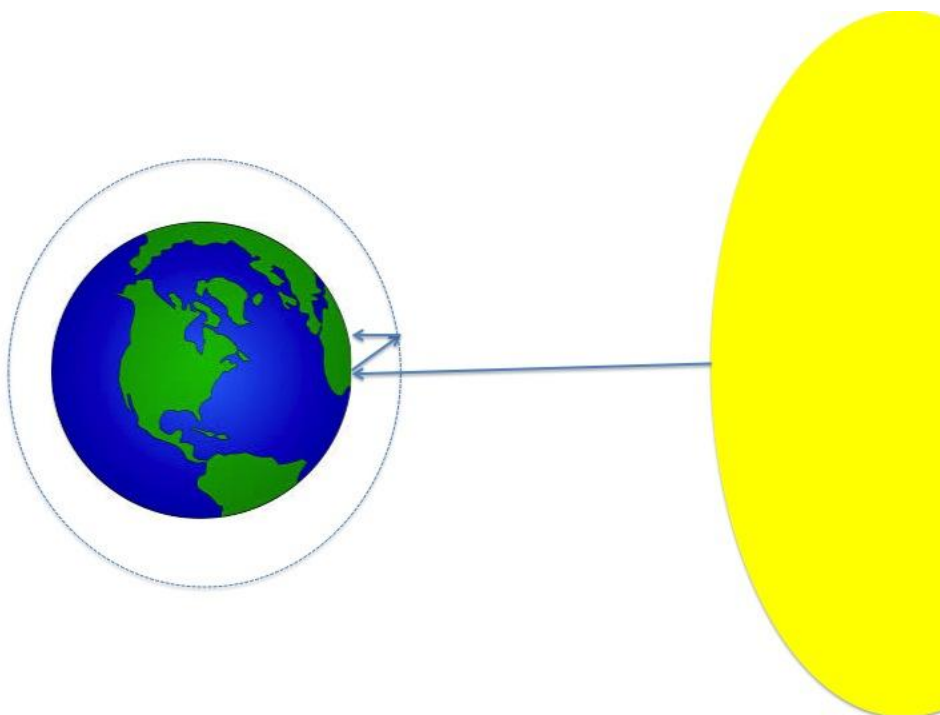
A= Accept 4 of the following points:

- Carbon sinks can't cope – Increasing speed of global warming
- Human industry/ waste
- Levels of methane increasing – cattle / rice
- Deforestation
- Overpopulation

(4 marks)

Q4: Draw an arrow to represent how the suns energy is reradiated back to earth from the atmosphere.

A= mark awarded for the arrow in the correct position



(1 mark)

Q5: What gasses are contributing to global warming?

A= Accept either of the following:

- Carbon Dioxide (CO₂)
- Methane

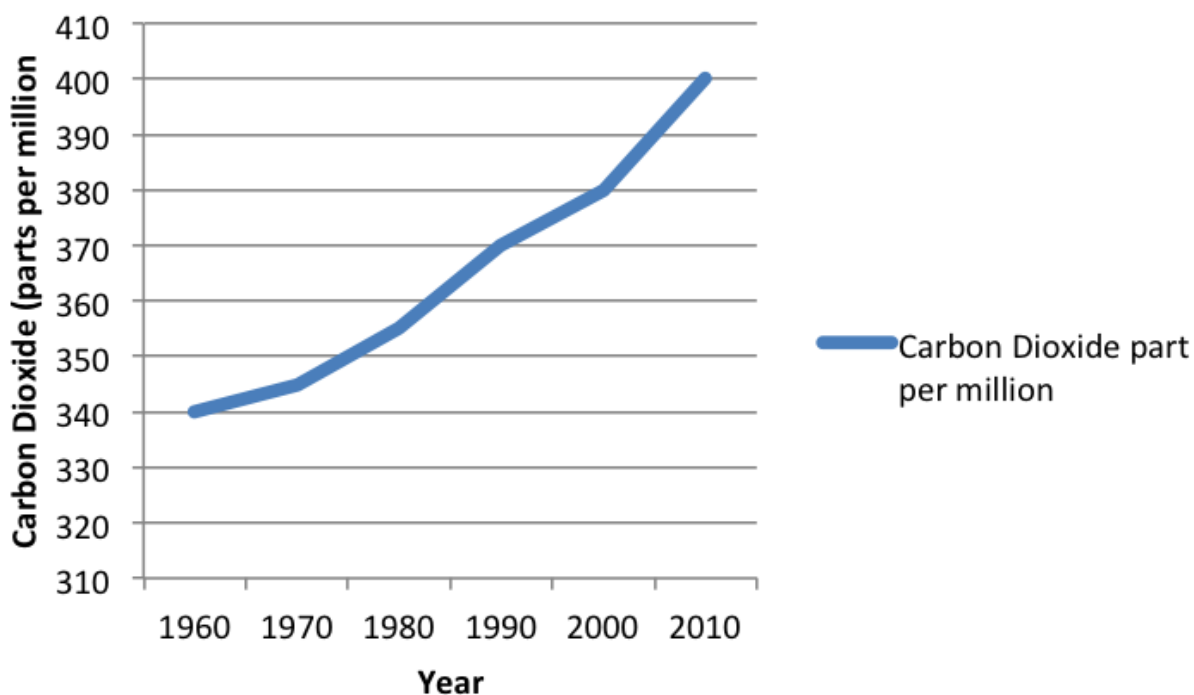
(2 marks)

Q6: i) Draw a line graph using the data below to show the change in carbon dioxide levels over time.

A= 1 mark for correct axis

2 mark for correct plots

1 mark for correct labels



(4 marks)

ii) Describe the trend seen on your graph above.

A= Accept one of the following:

- Rapidly increasing levels
- Exponential rise

(1 mark)

Q7: Why is the green house effect necessary to life on earth?

A= Keeps the temperature suitable for life

(1 mark)

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Q8: What can the average increase in global temperature cause?

A= Accept one of the following:

- Rising sea levels
- Climate change

(1 mark)

Q9: Discuss the physical effects that global warming will cause to the earth and give examples.

A= Accept any 2 points and corresponding examples.

- Severe unpredictable weather – High winds /Floods
- Melting ice caps – Rising sea levels /desalination/ loss of countries
- Less Carbon Dioxide dissolved in water- Increased temperature/ Increased Global warming.

(4 marks)