

GCSE Chemistry A (Gateway Science)

J248/02 C4-C6 and C7 Foundation (Foundation Tier)

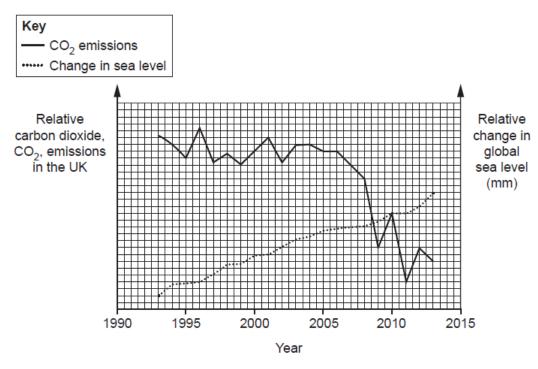
Question Set 30

1 Some scientists believe that the increased burning of fossil fuels has contributed to global warming.

The scientists say that global warming is causing ice to melt, which results in sea levels rising.

Other scientists believe that rises in global temperatures are just natural variations.

The graph shows the carbon dioxide, CO_2 , emissions by fossil fuels in the UK and the changes in global sea levels between 1993 and 2013.



(a) Evaluate the information shown in the graph.

To what extent does the graph support a link between human activity and global warming?

[3]

(b) There are problems with using information about CO₂ emissions by fossil fuels to draw conclusions about the effect of carbon dioxide emissions on global sea levels.

Suggest what these problems are.

[2]

(c) (i) Describe **one** effect on the Earth's climate of increased carbon dioxide levels, other than rising sea levels.

[1]

(ii) Suggest how we can lower carbon dioxide levels.

[1]

Total Marks for Question Set 30: 7



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