

GCSE Chemistry A (Gateway Science) J248/04 Chemistry A C4-C6 and C7 (Higher Tier)

Question Set 25

1 Carbon dioxide is one of several greenhouse gases.

It is made by the combustion of fossil fuels such as coal, gas and oil.

Between 2010 and 2016, the total percentage increase of atmospheric carbon dioxide has been about 2.5%. During the same time, the increase in mean global temperature has been only 0.05 °C.

The table shows the amount of carbon dioxide produced in a large city in 2010 and 2016.

Source of carbon dioxide	Carbon dioxide produced (tonnes)		Percentage
	in 2010	in 2016	increase (%)
Homes	500 000	600 000	20
Factories and industry	500 000	750 000	50
Transport	1 000 000	1 000 000	0
Electricity generation	750 000	900 000	

(a) Look at the row for electricity generation.

Calculate the percentage increase of carbon dioxide produced.

Answer = .	c	%	[2]
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(b) Some scientists think there is a link between the amount of fossil fuels burnt and climate change.

The data in the table does **not** support this view. Suggest reasons why.

[2]

Total Marks for Question Set 25: 4

Resource Materials

0

(9 7 N N 14.00 114.00 114.00 115. (2) 4 5 B B boron 10.8 13 A 1 13 A 1 13 A 1 2 27.0 31 B Ga gallum 69.7 49 In In Indiam Indiam 1114.8 81 T 1 T 1 1 14.8 E 10.4 204.4 204.4 3 The Periodic Table of the Elements 29 Cu copper 63.5 47 Ag silver 1107.9 79 79 T07.0 1111 9 27 27 Co cobalt 58.9 45 Rh rhodium 102.9 1r infetum 192.2 109 MR MR rhodium 192.2 109 MR MR methrerium methrerium 25 Mn nanganese 54.9 43 Tc 75 Re thenium 186.2 107 Bh bohrium Key atomic number Symbol name relative atomic mass 21 Sc Scandium Scandium 45.0 39 Y Y yttrium 88.9 89-103 (5)

2 He hellum hellum hellum 4.0 10 10 Ne neor 20.2 18 Ar argon 39.9 36 Xr krypton 83.8 54 Xr krypton 83.8 86 Rn radon rado



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