

Question		Answer	Mk	
1.	a.	What climate change contributor is pictured here?	Volcano	1
	b.	How does it change the climate?	Ash (cools the atmosphere/stops growth of plants etc.)	1
	c.	Name two other natural causes of climate change.	Milankovitch cycles, solar flares, comets.	2
2.	a.	Name one greenhouse gas.	CO ₂ , Methane, CFCs, Water Vapour	1
	b.	Explain how the enhanced greenhouse effect differs from the greenhouse effect.	Mention any four: <ul style="list-style-type: none"> • Increased release of gases • from humans. • Thickening of atmosphere. • More heat trapped. • Warming of air/earth. • Mention of source of gases. 	4
3.	a.	What is the combined sea level rise caused by melting ice, according to the diagram?	1.46mm	1
	b.	Describe an experiment that could be carried out to show the difference between land ice and sea ice melting and which contributes most to sea level rise.	Mention any three: <ul style="list-style-type: none"> • Get two tubs, make one with 'land', the other with 'sea'. • Place ice cubes on the land and sea • Measure the height of the water in both containers. • Record the changing water level as the ice melts in both containers. • The side with the highest water level increase is the side that contributes most. 	4
4		'Trying to stop climate change is pointless.' Do you agree? Explain your answer. Aim to talk about a range of arguments both for and against the statement. Be sure to come to a definite conclusion as to what you think and WHY.	For this question, use the following best fit from the table below.	10

Level 1	Describes some reasons for OR against the statement. Low quality of English – SpaG (Spelling, punctuation and grammar)	1-3
Level 2	Explains some reasons for OR against the statement. OR Describes some reasons from both sides of the statement. Comes to a basic conclusion as to whether the statement is true or not but this may not be explained. Good SPaG – some mistakes but not many.	4-7
Level 3	Complex explanations of arguments BOTH for and against the statement. Uses a range of examples (at least three.) Comes to a clear, reasoned conclusion. Excellent SPaG with very few errors.	8-10

When you have found a mark out of 24, use this grid to show what grade you have achieved:

Marks	Grade
10 or less	2
11-14	3
15	4c
16	4a
17	5c
18	5b
19	5a
20	6c
21	6b
22	6a
23	7c
24	7b