

Name _____ Class _____

- 1 Soil samples from different areas will often have different pHs.

Describe two other ways in which soils can be different.

i _____

ii _____

[2 marks]

- 2 The table below shows the best pH of soil for growing different vegetables.

Vegetable	Best pH
carrots	5.5-6.5
potatoes	4.5-6.0
cauliflower	5.5-7.5
cabbage	6.0-7.5
parsley	5.0-6.5

- a Which **two** plants could grow well in a soil that is slightly alkaline?

i _____ ii _____

[1 mark]

- b Which plant can grow in the most acid soil?

[1 mark]

3 Use the information in this table to answer the questions that follow.

Type of rock	limestone	granite	slate
Hardness	soft	hard	hard
Splits into layers	no	no	yes
Large crystals	no	yes	no
Soaks up water	yes	no	no
Effect of dilute acid	reacts	none	none

a Which rock would be most affected by acid rain?

[1 mark]

b Give **two** differences between granite and slate.

i _____

ii _____

[1 mark]

4 The old monument shown below is made out of limestone.



a What difference would it make if the monument was made of granite?

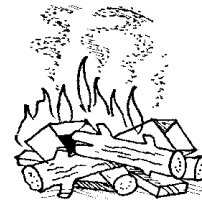
Give the reason.

[1 mark]

- b Briefly describe one way that rocks become weathered physically.

[1 mark]

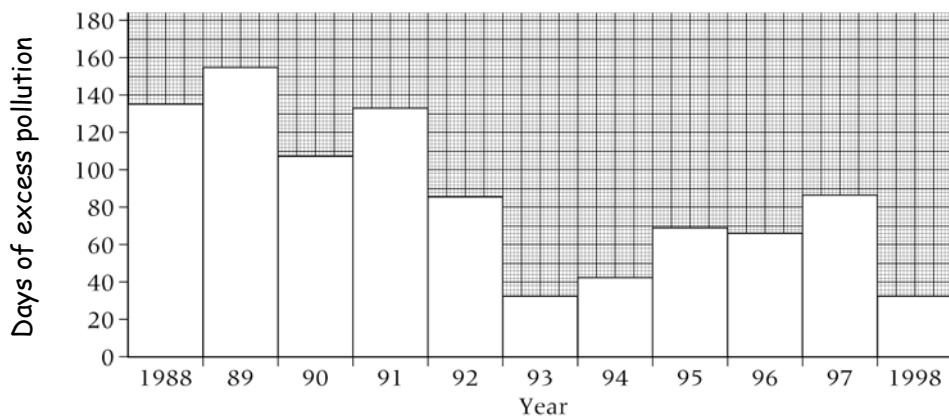
- 5 Rainwater is naturally acidic. It has a pH between 5 and 6. One of the gases that cause acid rain is formed by burning fuels.



What is the name of this gas?

[1 mark]

- 6 The British government has set targets for pollution levels. The graph below has been supplied by Air Quality Management. It shows the number of days per year, between 1988 and 1998, that the levels of sulphur dioxide exceeded the set limits.



- a In which year was the sulphur dioxide pollution worst?

[1 mark]

- b Which **two** years showed the lowest levels of sulphur dioxide pollution?

[1 mark]

- c What was the **total** number of days, from the start of 1994 to the end of 1998, that the levels of sulphur dioxide exceeded the limit?

Answer _____

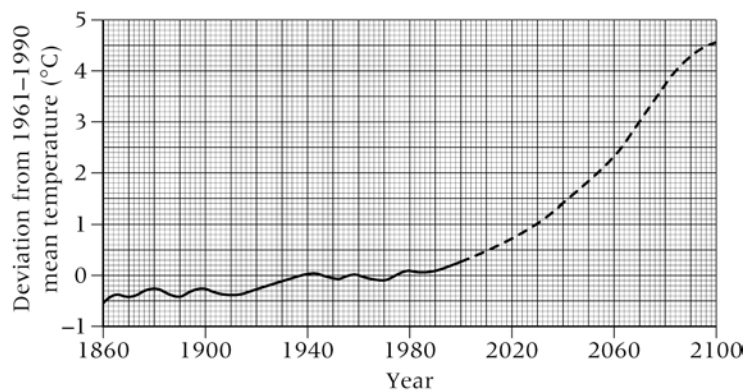
[1 mark]

- d What was the mean (average) number of days, between 1994 and 1998, that the levels of sulphur dioxide exceeded the set limit?

Answer _____

[1 mark]

- 7 The graph shows what some scientists predict will happen to mean (average) world temperatures in the next 100 years. The graph shows by how many degrees the temperature differs from the mean temperature between 1961 and 1990. So, in 1900 the temperature was 0.3°C lower than the mean temperature between 1961 and 1990.



- a What is the predicted temperature rise from now to the year 2100?

[1 mark]

- b What is the possible effect of rising world temperatures on sea levels?

[1 mark]