

Activity 3: Assessment Objectives

Identify the Assessment Objectives for each of the questions.

9 Pollution can occur in the atmosphere and in rivers.

(a) Carbon monoxide can pollute the atmosphere.

Describe the effects of carbon monoxide pollution on humans.

(3)

Assessment Objective:

(d) The corn becomes infected by a fungus.

(i) Explain how this fungus feeds on the corn.

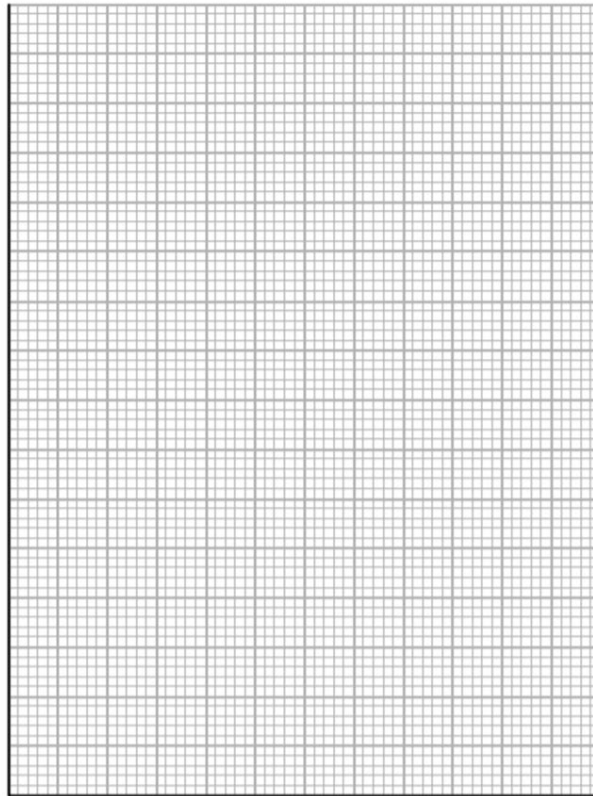
(3)

Assessment Objective:

(a) Plot a line graph of this data on the grid.

Use a ruler to join the points with straight lines.

(5)



Assessment Objective:

(b) What is the dependent variable in this investigation?

(1)

- ☐ **A** germination rate
- ☐ **B** number of cells
- ☐ **C** pollution level
- ☐ **D** time after germination

Assessment Objective:

(c) The scientists conclude that pollution reduces the growth of shoots by affecting cell division.

(i) Name the type of cell division affected by pollution in this investigation.

(1)

(ii) To make sure their conclusion is valid, the scientists control abiotic variables while the seeds are germinating.

Discuss two abiotic variables that the scientists control.

(4)

1.....

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2.....

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(iii) State one biotic factor that the scientists should control.

(1)

Assessment Objectives:

(c) If the mineral ions are not absorbed, they are egested in the faeces.

The faeces of genetically modified (GM) farm animals contain less phosphate than the faeces of normal farm animals.

(i) Some people catch fish from rivers near farm land.

Discuss why these people might support the genetic modification of farm animals.

(4)

Assessment Objectives:

