



Biology assessment activity – Student worksheet

Biology assessment activity – Answer sheet

Total marks available 23

You have 30 minutes to complete this assessment activity.

Dallan is a Junior Executive who works for Ace Engineering. He wants to increase biodiversity on his company's 3 sites because he is worried about the impact on a population in certain environments. This will also help Ace engineering to promote themselves as a company that promote conservation which will be attractive to customers.

Dallan is also concerned that some species of animal may become extinct because of human activity.

Question 1 – What does the word biodiversity mean? [1 mark]

Question 2 – What does extinct mean? [1 mark]

Question 3 – What does population mean? [1 mark]

Question 4- What does species mean? [1 mark]

Question 5- Give 2 reasons it is important for humans to maintain biodiversity. [2 marks]

Question 6- Give 2 ways humans have been lowering biodiversity. [2 marks]

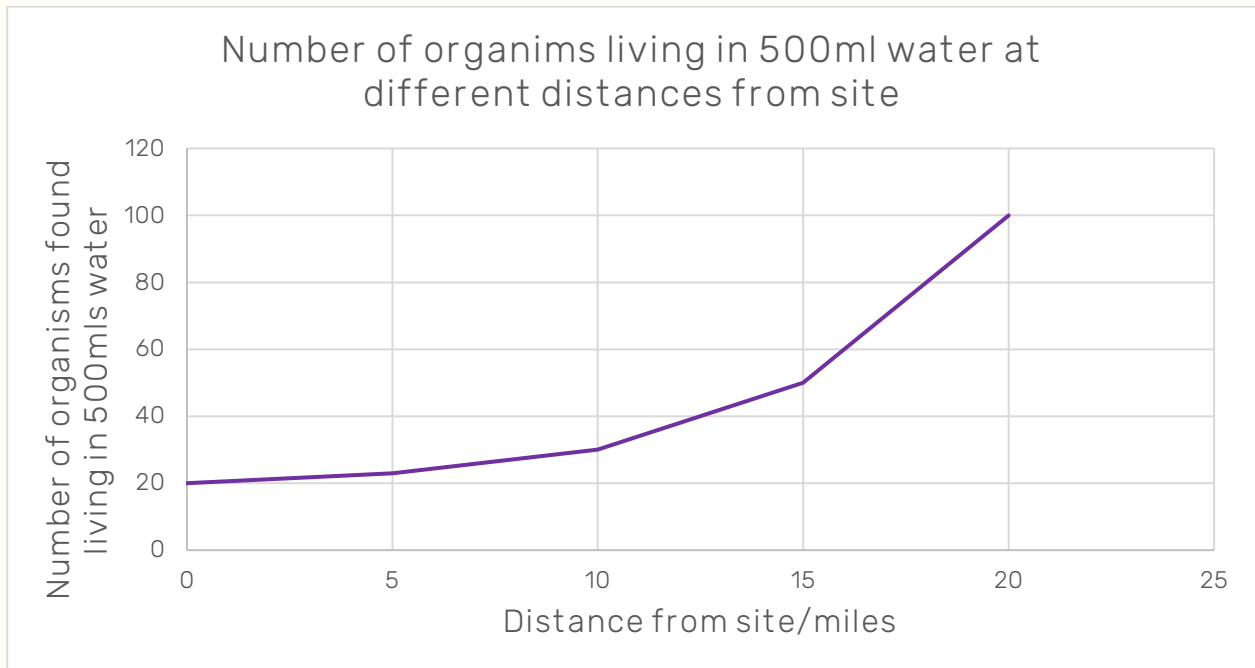
Question 7- Give 1 example of what humans are doing to try and improve biodiversity. [1 mark]

Question 8 – Dallan is looking at ways he can increase biodiversity where he works.

Place a tick (✓) in the column to indicate if Dallan's idea will increase biodiversity. [4 marks – 1 mark for each box]

| Dallan's idea | ✓ for increase |
|-------------------|----------------|
| Plant trees | |
| Use weedkillers | |
| Remove hedges | |
| Build a pond | |
| Plant wildflowers | |
| Put up bird boxes | |

Ace Engineering has accidentally let some dangerous waste into the nearby river at one of the sites. The graph below shows the effect of this.



Question 8 – Describe what the graph is showing. [2 marks]

Question 9 – Give a reason for your explanation. [1 marks]

Question 10 – What is the difference in the number of organisms between 0 miles and 20 miles from the site?

[1 mark]

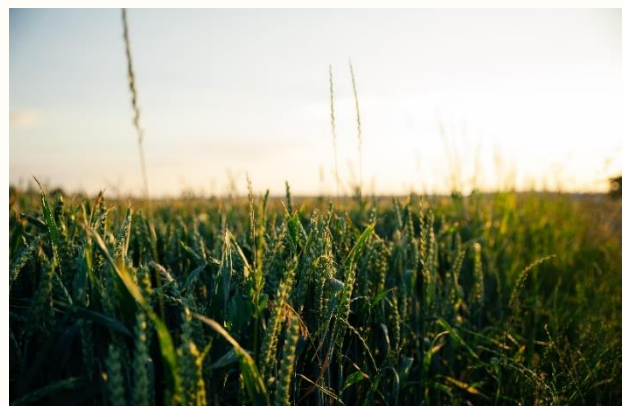
Question 11 – Suggest a reason for this difference. [1 mark]

Look at the 2 photos below. Figure 1 shows a rainforest and figure 2 shows a farmer's field.

Figure 1



Figure 2



Question 12 – Which place would have the greatest biodiversity, figure 1 or 2? [1 mark]

Question 13 -Give 2 reasons for your answer. [2 marks]

Question 14 – Suggest what you could do to decrease the biodiversity of the rainforest. [1 mark]

Question 15 – Suggest what you could do to increase the biodiversity of the farmer's field. [1 mark]

