



# Biology assessment activity – Answer sheet

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Total marks available 23

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

All the different types of living things on our planet.

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

When a species dies out and there are none left.

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

A group of the same species that live in one place.

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

A group of living things that look similar and can reproduce to have fertile young.

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

Organisms provide us with food and oxygen, and they keep water clean.

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

- Cutting trees down.
- Burning fossil fuels.
- Clearing land for farming.
- Clearing hedges to make farm fields bigger.

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

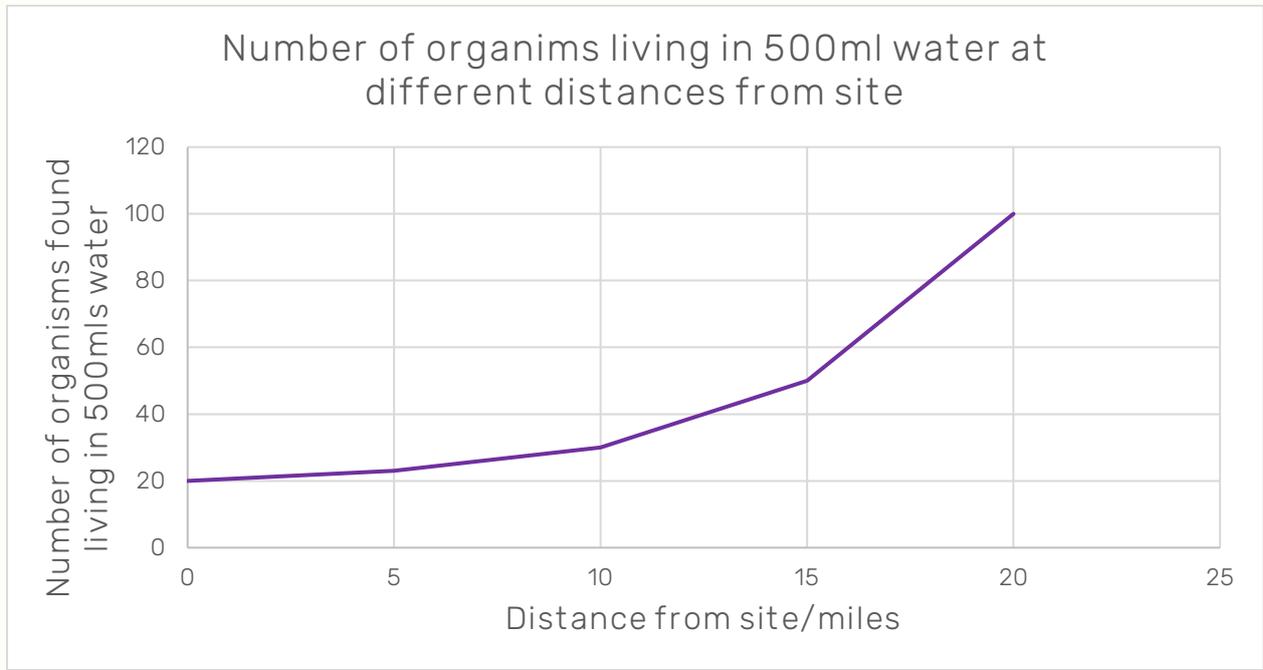
- Replanting trees.
- Sewing wildflowers.
- Recycling.
- Using alternative energy sources e.g. wind/solar.

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]

- As distance from the site increases, so does the number of organisms per 500mls water. (1)
- Between 15 and 20 miles, the number increases more than at any point. (1)

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

Animals nearer the site will have been killed/harmed due to the accidental waste going into the river. (1)

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

80

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

The further away from the spillage, the more diluted it is/less harm it can cause. (1)

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

1



2



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

Figure 1/rainforest

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

- More trees
- Water
- More food
- More shelter

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

- Remove trees
- Pollute water

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

Plant other plants as only has one type growing.

