Name _____ Date _____

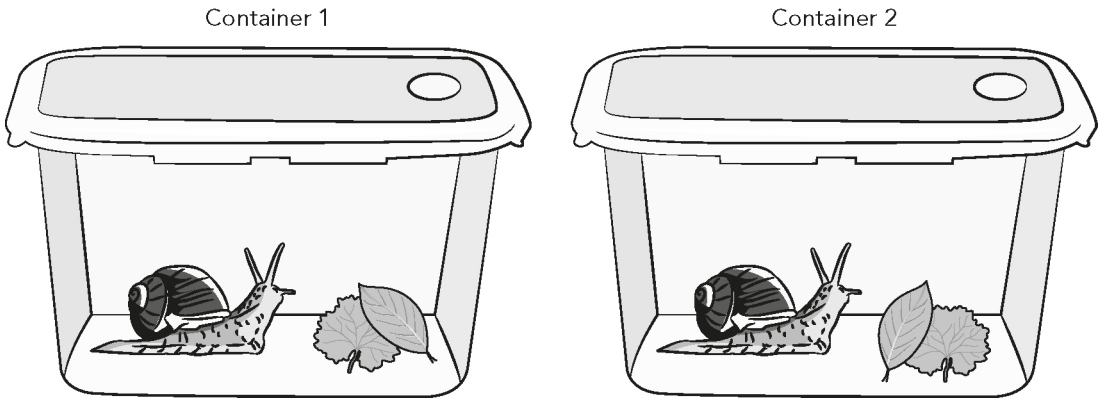
Disclaimer: This test and mark scheme have been written by the authors.

End-of-unit test

Unit 7

1 Zara is investigating the food preferences of a certain type of snail.

- She collects two leaves from one species of plant, and two leaves from another species.
- She measures the area of each leaf.
- She puts one leaf from each species into two containers.
- She puts a snail into each container.



After one day, she measures the area of each leaf again. The table shows her results.

Leaf	Container	Area of leaf at start in mm²	Area of leaf after one day in mm²	Change in area in mm²
Species A	1	132	130	2
	2	149	135	6
Species B	1	152	120	32
	2	146	112	34

a What was the variable that Zara changed in her experiment? **[1]**

The variable that Zara changed in her experiment was the species of leaves.

b Write down a conclusion that Zara can make from her experiment. **[1]**

This suggests that Species B leaves are less suitable as food for snails.

c Suggest one way in which Zara could improve her experiment, so that she can be more certain that her conclusion is correct. **[1]**

Zara should assign leaves randomly to the containers.

d After Zara finishes her experiment, she removes the snails from the containers and puts them outside.

One week later, she notices that the leaves in the containers have become brown and soft.

Explain what has happened to the leaves. **[2]**

Decomposition occurred when the leaves were exposed to the environment, which caused them to turn brown and soft.

2 Which of the following are microorganisms? Circle each correct answer. **[2]**

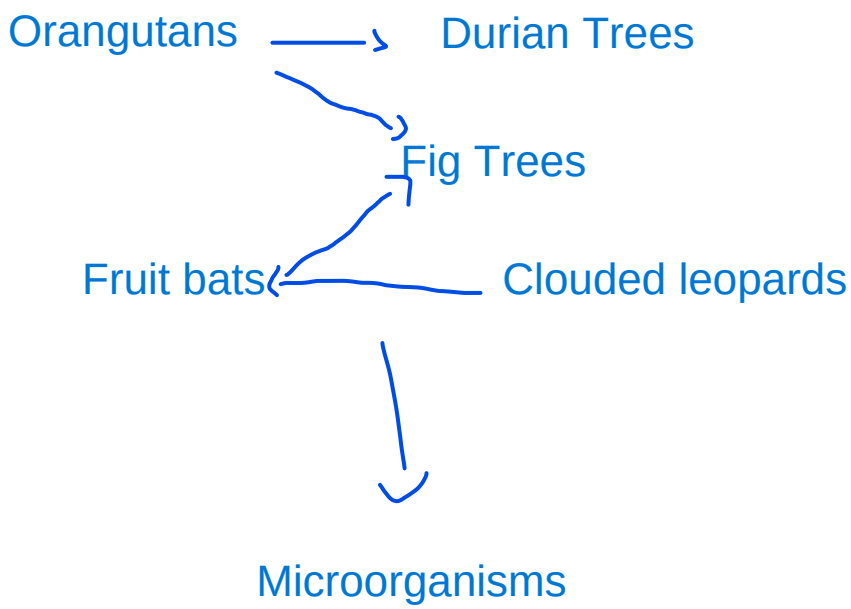
bacterium mitochondrion neurone yeast

3 Here is some information about a food web in a tropical rainforest.

Orangutans and fruit bats eat the fruit from durian trees and fig trees.
Clouded leopards eat fruit bats.

Microorganisms on the forest floor feed on parts of the fruits that are thrown away by orangutans. The microorganisms also decompose droppings (faeces) from all of the animals.

Use the information to construct a food web showing all of these organisms. **[3]**



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