

1 What resources do plants need from their habitats? Tick (✓) four boxes.

<input type="checkbox"/> water	<input type="checkbox"/> salt	<input type="checkbox"/> light	<input type="checkbox"/> rocks
<input type="checkbox"/> wind	<input type="checkbox"/> slugs	<input type="checkbox"/> mineral salts	<input type="checkbox"/> warmth

2 Draw lines to match the words with their meanings.

characteristic
environment
environmental factor
environmental variation
physical environmental factor

The conditions in a habitat.
Differences between organisms caused by environmental factors.
A feature of an organism.
Something non-living in an organism's surroundings that can change it.
Anything that can change the conditions in a habitat or the organisms that live there.

3 a Look at the drawing of Jodie. Circle the examples of environmental variation.

b State one of Jodie's characteristics that shows continuous variation.

c State one of Jodie's characteristics that shows discontinuous variation.



4 Leopards and tigers are different species. Very rarely they can breed with one another to produce tigards. What will tigards not be able to do, which their parents can?

5 Flamingo birds feed on algae and shrimps, which both contain substances called carotenoids. Flamingo livers break down the carotenoids to form pink compounds, which colour the feathers. Flamingos that cannot find algae or shrimps can eat insects, which don't contain carotenoids.

a Some flamingos are white. What environmental factor has caused this?

b How might white flamingos have confused those who first saw them?

1 For each example of environmental variation in the table, suggest an environmental factor that has caused it.

Environmental variation	Possible environmental factor
person with a suntan	
plant with holes in leaves	
wilted plant	
tree with a hole in it	
person with big muscles	
tree growing at an angle	

2 Use the words in the box below to complete the paragraph. You can use the words more than once.

environmental factors organism physical species variation

A living thing is called an _____. Different types of organism are called _____. There is a lot of _____ between different species. Some variation is caused by _____ in an organism's surroundings. These are called _____ and they cause _____. Some of these factors are other organisms but others are non-living factors, and these are called _____

3 a Is the data shown in bar chart A continuous, discontinuous or neither? _____

b Is the data shown in line graph B continuous, discontinuous or neither? _____

