

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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

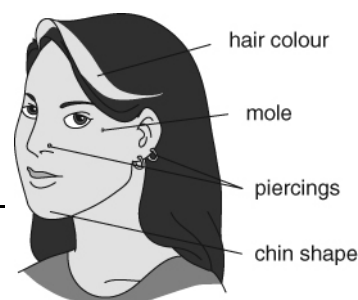
- |                                |                                |  |                                 |
|--------------------------------|--------------------------------|--|---------------------------------|
| <input type="checkbox"/> water | <input type="checkbox"/> salt  | <input type="checkbox"/> 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?

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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?

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

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### I can...

- identify different types of environmental variation and explain their causes
- explain how environmental variation can cause problems with classification.