

Student worksheet

8.1 There are different ways of reproducing

Pages 140–141 and 211

Reproduction

1 What is the difference between sexual and asexual reproduction?

Asexual reproduction

2 What can be said of the genetic material between parent and offspring in asexual reproduction?

3 What is binary fission?

4 What is parthenogenesis?

5 Give an example of an organism that undergoes parthenogenesis.

6 What is fragmentation?

7 Give an example of an organism that undergoes fragmentation.

8 What is fragmentation in plants called?

9 What parts of a plant does the term in question 8 refer to? Give three examples.

Sexual reproduction

10 What is sexual reproduction?

11 What is offspring?

12 Why is variation within a population important?

13 What is the difference between identical and non-identical twins in terms of their DNA?

Hermaphrodites

14 What is a hermaphrodite?

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15 Some organisms that are hermaphrodites can ‘turn off’ one sexual system. When and why would this be beneficial?

Extend your understanding
Hermaphroditism sometimes occurs in humans.

16 What tissues and organs must a human be born with in order to be a hermaphrodite?

17 What happens in the fertilisation process for hermaphroditism to occur in humans?

18 What is the more common and accepted term for a person who is a hermaphrodite?
