

Life Cycles and Reproduction: A Scientific Report

Learning objective: To explain the process of reproduction in plants and animals, and identify how life cycles differ.

Use this scaffold to write a scientific report about reproduction. Refer to the life cycles of plants and animals, ensuring you use scientific terminology correctly. You may use your notes from our lesson with Bea the honeybee to help you.

Reproduction is a fundamental biological process that ensures the survival of all living species on Earth.

Word bank: reproduction · asexual · sexual · pollination · fertilisation · offspring · germination · consequently · furthermore · in contrast · however

1. Introduction: Define reproduction and explain why it is essential for the survival of a species. Start by saying: Reproduction is the process by which... (3 marks)

2. Plant Reproduction: Describe the role of flowers in reproduction. Include the steps of pollination and fertilisation. Start by saying: In flowering plants, the process begins when... (4 marks)

3. Animal Reproduction: Compare and contrast different methods of animal reproduction. Start by saying: Animals reproduce in a variety of ways; for example, many mammals... (4 marks)

4. Comparing Life Cycles: Discuss the differences between sexual and asexual reproduction. Start by saying: A key difference between sexual and asexual reproduction is... (3 marks)

5. Conclusion: Summarise the importance of life cycles and offspring. Start by saying: In conclusion, the ability for organisms to produce offspring is vital because... (2 marks)

Extension challenge: Research a specific animal, such as a frog or a butterfly, and draw a labelled diagram of its unique life cycle to accompany your report.