

Spring Science: The Awakening of Life

Learning objective: To describe the life cycles of flowering plants and observe seasonal changes in the natural world through a scientific report.

Use this scaffold to structure your scientific report on the changes seen during Spring. Use your observations and scientific vocabulary to explain how living things respond to the changing climate.

As the Earth tilts towards the Sun, the arrival of Spring triggers a remarkable transformation in our local ecosystem.

Word bank: germination · photosynthesis · pollination · dormant · gradually · consequently · furthermore · in addition · as a result · predominantly

1. Introduction: Define what happens to the length of daylight and temperature during Spring. Start by saying: The transition into Spring is characterised by... (3 marks)

2. Plant Life Cycles: Explain the process of germination and how Spring conditions support new growth. Start by saying: During this season, seeds that have been dormant begin to... (4 marks)

3. The Role of Pollinators: Describe how Bea the honeybee and other insects interact with flowers. Start by saying: Pollination is a vital process because... (3 marks)

4. Comparison and Analysis: Compare the state of a deciduous tree in Winter versus Spring. Justify why these changes are necessary for survival. Start by saying: Unlike the barren appearance of Winter, Spring allows trees to... (4 marks)

5. Predictive Thinking: What might happen to the local food chain if Spring arrived significantly earlier than usual? Start by saying: If the temperature increased prematurely, the ecosystem would be impacted because... (4 marks)

6. Conclusion: Summarise the importance of seasonal cycles for biodiversity. Start by saying: In conclusion, the scientific phenomenon of Spring is essential for... (2 marks)

Extension challenge: Nova the owl has noticed that some plants are blooming earlier every year. Write a short paragraph justifying why a scientist might need to collect data over several decades to prove that climate change is affecting plant life cycles, rather than just observing one single year.