

Bea's Botanical Investigation: Plant Life Cycle Journal

Learning objective: To describe the life process of reproduction in some plants and explain the role of parts of a flowering plant.

Follow Bea the honeybee on her journey through the garden. Use this template to record your findings about how a flowering plant grows, reproduces, and thrives. Fill in each section using your scientific knowledge about plant anatomy and life cycles.

Word bank: pollination · germination · stamen · carpel · sepal · fertilisation · seed dispersal · photosynthesis

1. The Flower's Anatomy: Describe the function of the stamen and the carpel in a flowering plant. (3 marks)

2. Pollination Process: Explain how insects like Bea help the plant reproduce during pollination. (2 marks)

3. Seed Dispersal: Name two different ways seeds can travel away from the parent plant and explain why this is important. (3 marks)

4. Germination: What three things does a seed usually need to start the process of germination? (3 marks)

5. Life Cycle Summary: Briefly describe the stages of a plant's life cycle from seed to the production of new seeds. (4 marks)

Extension challenge: Research a specific plant, such as a pea plant or a sunflower. Create a timeline showing how long it takes for that plant to progress from germination to producing its own seeds.