

Bea's Botanical Experiment Record

Learning objective: To plan, observe, and record the life cycle and transport processes of a flowering plant.

Join Bea the honeybee in her garden laboratory! Use this template to track your scientific investigation into how plants grow and transport water. Observe your plant closely over a week, take measurements, and record your findings clearly. Remember to use scientific vocabulary to describe what you see happening in the stems and leaves.

Word bank: xylem · transpiration · photosynthesis · glucose · stomata · capillary action · vascular system · germination

1. Scientific Question: What are you investigating about your plant? (e.g., how water travels up the stem) (2 marks)

2. Method: List the steps you are taking to ensure your investigation is a fair test. (3 marks)

3. Observation: Describe the appearance of your plant today. Look closely at the leaves and stem. (2 marks)

4. Scientific Explanation: Using the word bank, explain how your plant is transporting water from the roots to the leaves. (4 marks)

5. Conclusion: Based on your results, what have you discovered about the function of the plant's vascular system? (3 marks)

Extension challenge: Research what happens to a plant if its xylem is blocked. Write a short paragraph explaining why this would prevent the plant from surviving, and share your theory with the class.