

Year 4 Science Assessment: The Life of Plants

Learning objective: To identify and describe the functions of different parts of flowering plants, explore the requirements of plants for life and growth, and investigate the way in which water is transported within plants.

Read each question carefully before writing your answer. Use the space provided to explain your reasoning. Ensure your spelling is accurate.

Bea the honeybee is busy visiting the meadow today. She lands on a bright flower to collect nectar, brushing against pollen as she goes. Nearby, a young seedling is pushing its first tiny green shoots up through the soil towards the sunlight, while its roots anchor it firmly into the ground.

Word bank: photosynthesis · roots · stem · leaves · petals · water · nutrients · transport · pollination · germination

1. Identify the two main jobs that a plant's roots perform. (2 marks)

2. Bea the honeybee is important for the life cycle of a plant. Explain how a bee helps a flower to reproduce. (3 marks)

3. Plants need water to survive. Describe how water moves from the soil to the leaves of a plant. (3 marks)

4. Name three things a plant needs to grow healthily, other than soil. (3 marks)

5. Why do plants usually have green leaves? Explain the role of the leaf in a plant's life. (4 marks)

6. Max the monkey wants to grow a sunflower. Design a fair test to find out if sunflowers grow better in the sun or in the shade. Include what you will keep the same and what you will change. (5 marks)

7. If a plant is kept in a dark cupboard for two weeks, what will happen to it and why? (5 marks)

Draw: Draw a diagram of a flowering plant and label the following parts: roots, stem, leaves, and flower.



Extension challenge: Total: /25