

Plants: Life Cycles and Needs

Learning objective: To identify and describe the functions of different parts of flowering plants and understand what plants need for life and growth.

Read each question carefully and use your scientific knowledge of plants to provide detailed answers. Refer to the word bank if you need help with key terminology.

Word bank: roots · stem · leaves · petals · pollination · photosynthesis · nutrient · germination

1. Bea the honeybee is visiting a flower. Explain the function of the petals and why they are often brightly coloured. (2 marks)

2. Max the monkey is looking at a plant. He notices the roots are hidden underground. What are the two main jobs the roots do for the plant? (2 marks)

3. Nova the owl wants to know what a plant needs to survive. List four things a plant requires to grow healthily. (2 marks)

4. Explain the role of the stem in transporting water and nutrients from the roots to the rest of the plant. (2 marks)

5. If a plant was kept in a dark cupboard for two weeks, what would happen to it and why? (2 marks)

Draw: Draw a diagram of a flowering plant and label the following parts: roots, stem, leaves, and flower. Draw an arrow to show the direction water travels through the stem.



Extension challenge: Research how different plants disperse their seeds. Write a short paragraph explaining the difference between seeds that travel by wind and seeds that travel by animal fur.