

Year 3 Science Assessment: The Wonderful World of Plants

Learning objective: To identify and describe the functions of different parts of flowering plants and explore the requirements of plants for life and growth.

Read each question carefully. Use your scientific knowledge to answer in full sentences where required. Ensure you use a pencil for all diagrams.

Nova the barn owl has been busy observing the garden. She has noticed that the plants in the sunniest corner are growing much taller than the ones tucked away in the shadows. Max the monkey is very curious about how the plants stay upright and how they get their 'dinner' from the soil.

Word bank: roots · stem · leaves · flowers · water · nutrients · sunlight · carbon dioxide · transport · support

1. Name the four main parts of a flowering plant. (2 marks)

2. Explain the job of the roots. Why are they important for the plant's survival? (3 marks)

3. Max the monkey wants to know what plants need to grow healthily. List three things a plant requires. (3 marks)

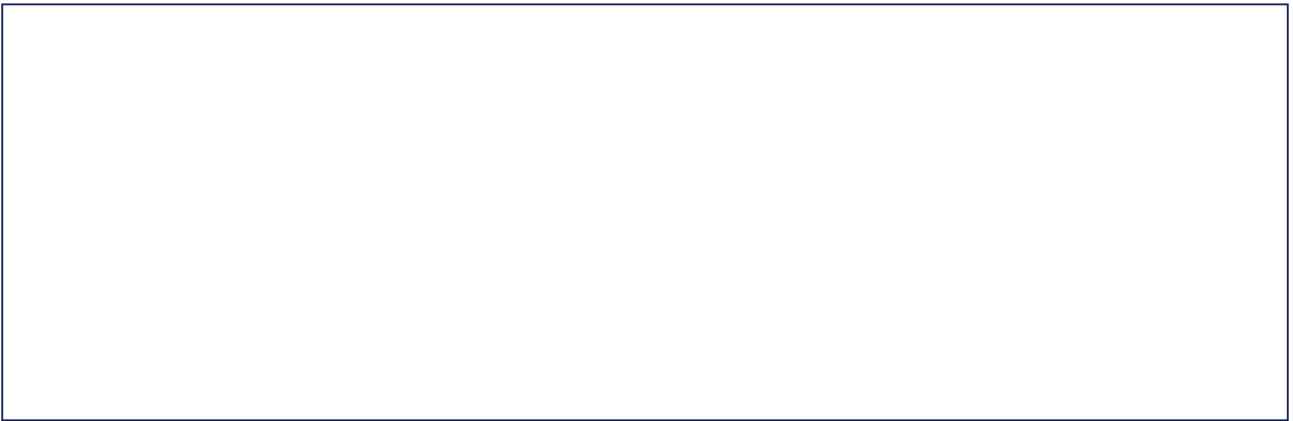
4. Describe the function of the stem. How does it help the leaves? (3 marks)

5. Nova noticed plants in the shadows grew slower than those in the sun. Why does a plant need sunlight? (4 marks)

6. If a farmer accidentally cut all the leaves off a plant, what might happen to the plant's growth? Use your scientific understanding to explain your answer. (5 marks)

7. What is the main purpose of a flower in the life cycle of a plant? (5 marks)

Draw: Draw a diagram of a flowering plant and label the roots, stem, leaves, and flower. Use a ruler for your label lines.



Extension challenge: Total: /25