

Springtime Discovery with Bea the Bee

Learning objective: To identify and describe the functions of different parts of a flowering plant and understand the life cycle changes in spring.

Follow the drawing prompts to create your botanical diagram. Use the word bank to label your scientific masterpiece accurately.

Draw: Create a detailed botanical diagram in a scientific style. Include a cross-section of a flower clearly showing the stamen and carpel. The scene should show the plant growing in soil, with a clear view of the root system below the surface. Add Bea the bee in a realistic style, showing her collecting pollen. Use clear, neat lines and add labels with straight arrows pointing to the relevant parts.



Label words: stamen · carpel · petal · sepal · stem · roots · pollinator

Steps:

1. Explain why the petals of a flower are often brightly coloured. How does this help the plant's life cycle?
2. What might happen to the plant if it did not have roots? Justify your answer using scientific reasoning.
3. Compare and contrast the role of the stamen and the carpel in plant reproduction.
4. Step 1: Draw a tall, healthy flowering plant in the centre of your page. Make sure it has visible roots underground.

5. Step 2: Draw Bea the bee hovering near the flower. Label the pollinator and the parts of the flower listed in the word bank.
6. Justify why spring is the most crucial time of year for a plant to begin its growth cycle.