

The Lifecycle of a Flowering Plant

Learning objective: To identify and label the parts of a flower and understand the process of sexual reproduction in plants.

Follow the drawing prompt to create a detailed diagram of a flower. Use the word bank to label the reproductive parts correctly. Ensure your diagram is clear and scientific.

Draw: Draw a large, cross-section diagram of a generic flowering plant. Use a sharp pencil for clear, clean lines. Start by drawing the ovary at the base, with the style reaching upwards and the stigma at the top. Surround this with several stamens (each with an anther on top of a thin filament). Add colourful petals around the reproductive structures and small green sepals at the base. Use a ruler to draw straight lines from your labels to the specific parts of the flower.



Label words: Stamen · Anther · Filament · Carpel · Stigma · Style · Ovary · Petal · Sepal

Steps:

1. Label the male reproductive parts of the flower, known collectively as the stamen, on your drawing.
2. Label the female reproductive parts of the flower, known collectively as the carpel, on your drawing.
3. Describe the function of the stigma in the process of pollination.
4. Explain why the petals are often brightly coloured and scented.

5. What is the name of the process where the pollen grain travels down the style to reach the ovule?