

Nova and Bea's Botanical Flashcards

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

Use these flashcards to test your knowledge of how plants grow, survive, and reproduce. Read the question on the front, think of your answer, and then check the back to see if you are correct!

What are the four main things a plant needs to survive and grow?

A plant needs sunlight, water, air (carbon dioxide), and nutrients from the soil.

What is the primary function of the roots in a flowering plant?

Roots anchor the plant in the ground and absorb water and minerals from the soil.

Define 'pollination'.

Pollination is the transfer of pollen from the male part of a flower (stamen) to the female part of a flower (stigma).

Explain the role of the stem.

The stem provides structural support for the plant and acts as a transport system to carry water and nutrients from the roots to the leaves.

What process do leaves use to create their own food?

Photosynthesis, where the plant uses sunlight, water, and carbon dioxide to create glucose.

Describe the process of seed dispersal.

Seed dispersal is the way seeds are moved away from the parent plant to new areas, using wind, water, or animals.

What is the function of the flower in a plant's life cycle?

The flower is the reproductive part of the plant, designed to attract pollinators and produce seeds.

What is 'germination'?

Germination is the process by which a seed begins to grow into a new plant when conditions like warmth and water are correct.

Why are petals often brightly colored and scented?

Petals are colored and scented to attract insects and birds, which helps the plant with pollination.

Explain why plants need to disperse their seeds away from the parent plant.

To avoid competition for sunlight, water, and soil nutrients, ensuring the seedlings have the best chance of survival.