

Year 3/4 Plants Knowledge Organiser

What do I know ?



- I know that seeds and bulbs grow into mature plants.
- I know that plants need light, water and a suitable temperature to grow and stay healthy.
- I know that a plant is a living thing.
- I can identify and describe the basic structure of a variety of common flowering plants, including trees.

Gems of knowledge



- I will name the different parts of a plant and explain their function.
- I will investigate how water is transported around a plant.
- I will learn about the conditions a plant needs to grow and stay healthy, but will also recognise that these conditions vary between plants.
- I will learn about the life cycle of a flowering plant and the purpose of the flower within this.

Our 'Working Scientifically' focus:



To make careful observations using equipment (Y4- a range of equipment). To take accurate measurements.



To use scientific evidence to answer questions.



Key vocabulary

Picture

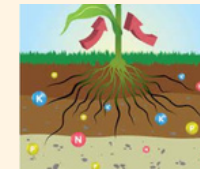
Meaning

Function



The purpose of a person or thing.

Nutrients



Substances needed by living things to grow and survive.

Seed dispersal



A method of moving the seeds away from the parent plant so that the seeds have the best chance of survival.

Photosynthesis



Where plants use sunlight to make their own food.

Pollination



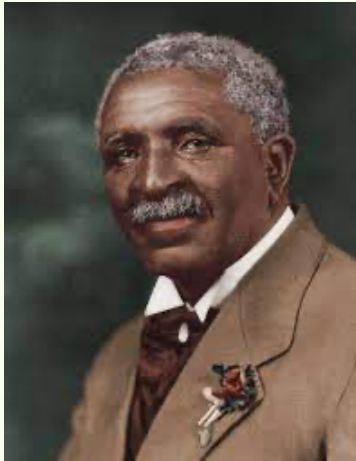
When pollen is moved from the male anther of a flower to the female stigma.

Enquiry



A scientific investigation.

Significant Scientist



George Washington Carver discovered that planting certain crops could increase the nutrients in the soil and keep it healthy. **This was significant because it meant that farmers could grow more crops successfully.** This system is called crop rotation.

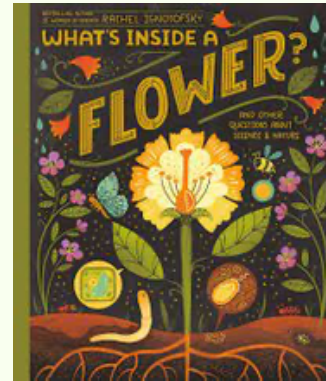


Careers in Biology (Plants)



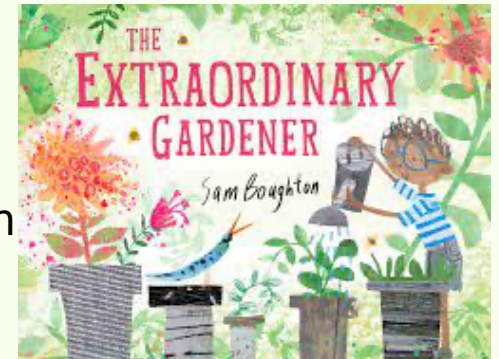
Horticulturalists are experts in garden cultivation and management. They have to take accurate measurements. They use scientific knowledge to improve the growth of plants and flowers.

Read me!



What's Inside a Flower by Rachel Ignotofsky.

The Extraordinary Gardener by Sam Boughton.



Both available to listen to on YouTube.