

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:

- I will ask and answer questions using different types of scientific enquiry (Y3- when prompted).
- I will set up investigations (Y3-with some support).
- I will make observations using equipment.
- I will take accurate measurements using standard units. (Y3-with some support).
- I will gather, record, classify and present data in a variety of ways to help to answer a question. (Y3- with support).
- I will record findings using simple scientific language, drawings and labelled diagrams/charts.
- I will report on my findings from an investigation.
- I will use scientific evidence to answer a question.
- I will use results to draw simple conclusions.



Key vocabulary



Picture



Meaning



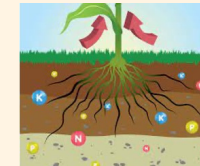
Function



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



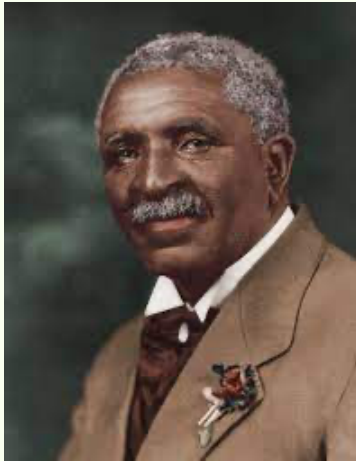
Where plants use sunlight to make their own food.

Pollination



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

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)



Horticulturists 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.