

Science Knowledge Organiser



Topic: Plants (Year 3 topic)

Year 4

Strand: Biology

What should I already know?

- The names of common plants found in gardens and in local areas. The different types of trees – deciduous and evergreen.
- The main parts of the plant – leaf, stem, flower, roots

Key Vocabulary

Roots	The part of the plant that grows underground. It anchors the plant and absorbs water and nutrients from the soil
Stem/trunk	Transports nutrients and water around the plant. It also holds the leaves/flowers up in the air.
Leaves	They use sunlight and water to produce the plant's food.
Photosynthesis	The way in which plants make food in their leaves.
Pollen	A very fine powder in flowers which is produced by the male part of the flower.
Pollination	When pollen is transferred to the female parts of the flower. Insects such as bees help with this.
Seed	Part of a flowering plant that grows into a new plant.
Seed formation	Seeds can be found in berries and fruit and they develop after pollination
Seedling	A young plant that has grown from a seed.
Germinate/ Germination	When a seed begins to grow its shoots. Seeds need warmth and water to germinate.
Bud	Growth on a plant that develops into a stem, leaf or shoot.
Flower	The part of a plant which is often brightly coloured and grows at the end of a stem.
Fruit	Fleshy part of a plant that contains seeds or a stone.
Berry	Small, juicy fruit without a stone.
Dispersal	The movement of the seed away from the plant.

How a plant takes in water



Plants need certain things to grow:



Pollination



Insects like bees and wasps transfer the pollen from the male part of a flower to the female part of other flowers.

Methods of seed dispersal



by animals eating them



in water



when the seed pod explodes



by wind



on animal's fur

