

VOCABULARY

Bulb: a root shaped like an onion that grows into a flower or plant.

Common: something that is found in large numbers or it happens often.

Crop: plants such as wheat and potatoes that are grown in large quantities for food.

Deciduous: a tree that loses its leaves in the autumn every year.

Evergreen: a tree or bush which has green leaves all the year round.

Flowering: trees or plants which produce flowers.

Germination: when the seed soaks up water and swells, a tiny new plant bursts out of its shell.

Herb: a plant whose leaves are used in cooking to add flavour to food, or as a medicine.

Leaf: the parts of a tree or plant that are flat, thin, and usually green.

Nutrients: substances that help plants and animals to grow.

Reproduce: when an animal or plant produces one or more individuals similar to itself.

Roots: the parts of a plant that grow under the ground.

Seed Dispersal: when the seeds move away from the parent plant, they can be moved by the wind or animals.

Vegetation: plants, trees and flowers.

Weed: a wild plant that grows in gardens and prevents the plants that you want from growing properly.



SCIENCE KNOWLEDGE MAT

Plants

MAIN IDEA

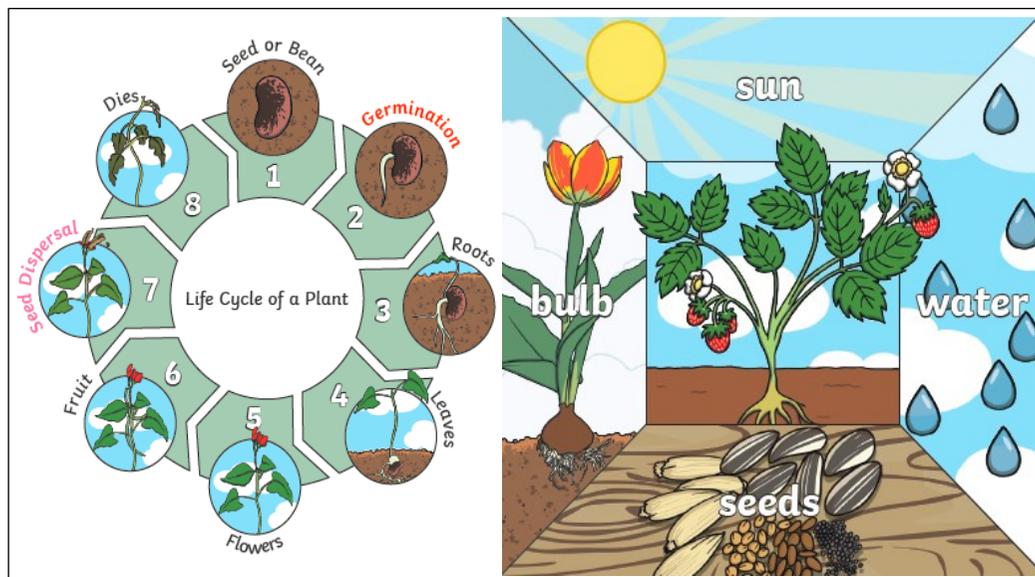
Children will observe how seeds grow and bulbs mature into plants. They will have the opportunity to explore a plant's needs for water, light and a suitable temperature to grow and stay healthy. There will be lots of opportunity for observation.

WHAT CAME BEFORE

Year 1 – identify common wild and garden plants and name the parts of a flower.

WHAT COMES NEXT

Year 3 – understand the function of different parts of a flower and understand its needs to grow.



WHAT YOU SHOULD ALREADY KNOW

- Plants can grow.
- Names of common garden plants (e.g. poppy, rose) and the names of some common wild plants (e.g. daisy, dandelion, nettle).
- The parts of a plant include: petals, fruits, roots, bulbs, seeds, stem, trunks and branches.
- Deciduous trees lose their leaves in the autumn, and evergreen trees have green leaves all year round.

KEY LEARNING

- Plants and living things require water, warmth and nutrients to grow. Plants receive these essential things from soil and light. Without these things, they may stop growing.
- We eat many plants. When farmers grow plants to provide us with food, these are called crops.
- We eat many fruits that contain seeds. We also eat different parts of vegetable plants, for example root vegetables (carrots, potatoes), stem vegetables (celery, spring onion), leafy vegetables (cabbage, lettuce) and flowering vegetables (broccoli, cauliflower).
- We eat grains and cereals from plants too, including wheat and oats.
- We grow herbs to add flavour to our food.
- The common parts of a tree include: crown, leaves, twig, branch, trunk and roots.
- The common parts of a plant include: flower, seed, leaf, stem and roots.

INVESTIGATE / QUESTIONS

- Can you dissect a range of fruits and identify where their seeds are?
- Can you eat a variety of vegetables and identify which part of the plant they come from?
- Plant a bulb or seed and watch it grow. Try adapting its conditions and see if it affects its growth.
- What would happen if you planted a seed on a wet cotton bud? Would it grow?