



GROWING PLANTS – KNOWLEDGE ORGANISER

YEAR 2 SCIENCE

LIVING & GROWING

SUMMER TERM

Key Knowledge

How do Plants Grow?

Every single seed has the beginnings of a new plant inside with a little store of food to help it grow.

When the conditions are right, the seed soaks up water and swells, then the tiny new plant bursts out of its shell – this is called germination.

Seeds and bulbs do not need sunlight in order to grow because they have their own food store inside them.

What do Plants Need?

Water – Like animals and humans, plants need water to survive. Plants are able to get water from the soil through their roots. They can also catch water on their leaves.

Sunlight – Plants need lots of sunlight to help them grow. Plants do not eat food but they use sunlight to make their own food.

Temperature – Plants need the right temperature to grow properly. If it is too hot, they may burn and wilt. If it is too cold, they may freeze and die.

Nutrients – These are the substances that help plants and animals grow and stay healthy. Plants take the nutrients they need from the soil.

Plant Life Cycle

Like all living things, plants have a life cycle.

Plants begin life as seeds or bulbs and need soil, air and water to grow.

Young plants are called seedlings and need water, light and the right temperature to keep growing.

Mature plants grow flowers and fruits which produce seeds.

When the plant dies or is pollinated, the seeds find their way to the soil and the life cycle begins again!

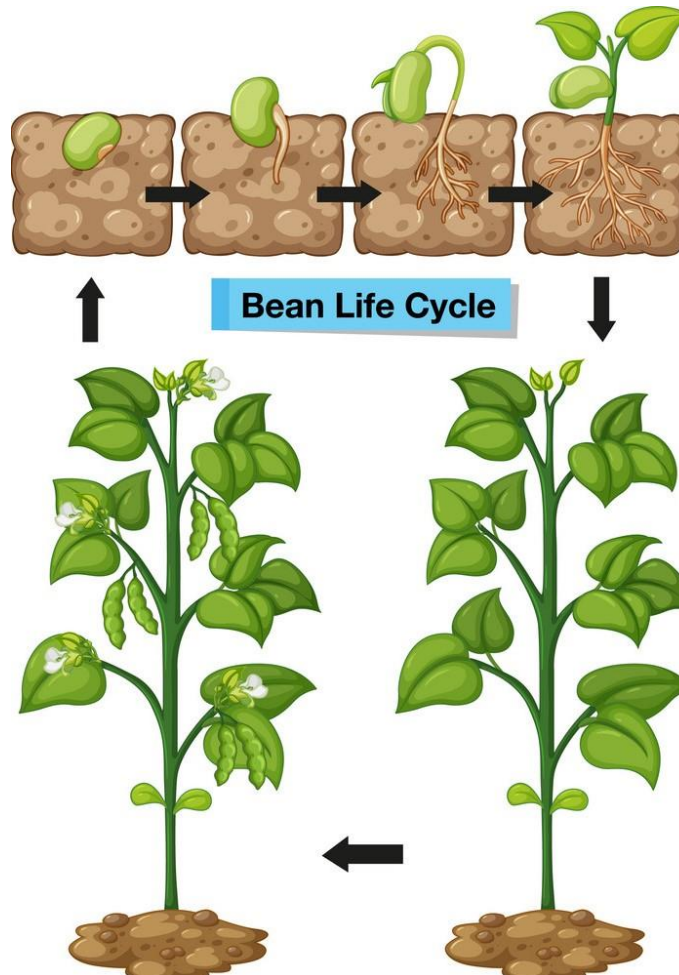
What should I already know?

The names of some common garden and wild plants.

The parts of a plant including petal, fruit, root, bulb, seed, stem, trunk and branch.

Deciduous trees lose their leaves in the autumn every year.

Evergreen trees have green leaves all year round.



Key Vocabulary

absorb	to take in or swallow up.
bulb	a root shaped like an onion that grows into a flower or plant.
flower	part of a plant which is often coloured and grows on the stem.
fruit	grows on a tree or bush and contains seeds or a stone.
germinate	when a seed begins to sprout.
leaf	part of a tree or plant that is flat, thin, and usually green.
nutrients	substances that help plants and animals grow and stay healthy.
petal	thin coloured or white parts which form part of the flower.
plant	a living thing that grows in earth and has a stem, leaves, and roots.
reproduce	when an animal or plant produces one or more individuals similar to itself.
root	part of a plant that grows underground.
seed	small, hard part of a plant from which a new plant grows.
sprout	when a plant sprouts it grows new shoots.
stem	the thin, upright part of a plant on which the flowers and leaves grow.
sunlight	light from the sun which is a form of energy that helps plants grow.

Science Skills

- Ask simple questions.
- Observe closely, using simple equipment.
- Perform simple tests.
- Identify and classify.
- Use observations and ideas to suggest answers to questions.
- Gather and record data to help in answering questions.