

Plants KNOWLEDGE ORGANISER



ESSENTIAL PLANTS VOCABULARY	
flower	The part of the plant that attracts insects.
bulb	A large round seed that grows into new plants.
stem	The part of the plant that holds the plant up and carries the water and nutrients.
roots	The part of the plant that takes in water and nutrients from the ground.
seed	A seed grows into a new plant.
seed coat	It is hard, it covers the whole of the seed and stops the seed from being damaged and drying out
germination	When a plant starts to grow from it's seed
shoot	A new growth coming up from the ground.
conditions	The plant has everything that it needs to grow successfully
soil	The upper layer of the earth.
fruit	The part of a plant that contains the seeds.
sun	The light or warmth received from the sun.
rain	Moisture that drops from the sky.
alive	Living and not dead.
leaf	The part of the plant that catches sunlight for the plant to make its own food.

Life Cycle of Plants

Seeds are planted in the soil. They then begin to sprout (germinate) and grow roots and a stem.

The plant grows leaves and reaches towards the sun, which helps it to produce food.

The grown plant produces fruit and flowers and disperses seeds.

The seeds then grow into new plants.

What do Plants Need to Grow?

- Sunlight.** All plants need light from the sun in order to grow, but some need more than others.
- Food.** Plants make their own food from the sunlight that hits their leaves.
- Temperature.** This is how warm or cold something is. Some plants prefer warmer temperatures and others prefer cooler temperatures.
- All plants need **water** to grow. If plants are outside, most of their water will come from the rain.

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY

Seasons	In some seasons, the sun provides more warmth and heat.
Seasons	It usually rains in some seasons more than others.
Food chain	The food chain features plants and animals that are alive .
Mini-beasts	Leaves are the main part of the diet for many mini-beasts.

Parts of Plants

- Roots** which take water from the soil.
- Seeds or bulbs.** These are planted to grow into flowers. Seeds are then dispersed by the wind and plants grow from them elsewhere.
- Flowers** attract insects.
- The **stem** carries the water up from the roots.
- The **leaves** catch the sunlight.

Investigation – what do seeds and plants need to grow?

We will **observe** the same type of seed growing in **different conditions**. This will help us to spot any **changes** and **patterns**. We will be able to **gather** and **record data** to help us answer our question – what do seeds and plants need to grow?

What's inside a seed?

The inside of a seed looks like this:

- This part will grow into the stem and leaves.
- This part will grow into the roots.