

# Carr Head Primary School - Knowledge Organiser

Science

Plants

Year 3

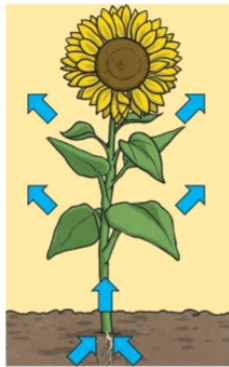
Summer 2

## Key Knowledge

How does water move through a plant?

1. The roots absorb water from the soil.
2. The stem transports water to the leaves.
3. Water evaporates from the leaves.
4. This evaporation causes more water to be sucked up by the stem.

The water is sucked up by the stem like water being sucked up through a straw.



## Key Vocabulary

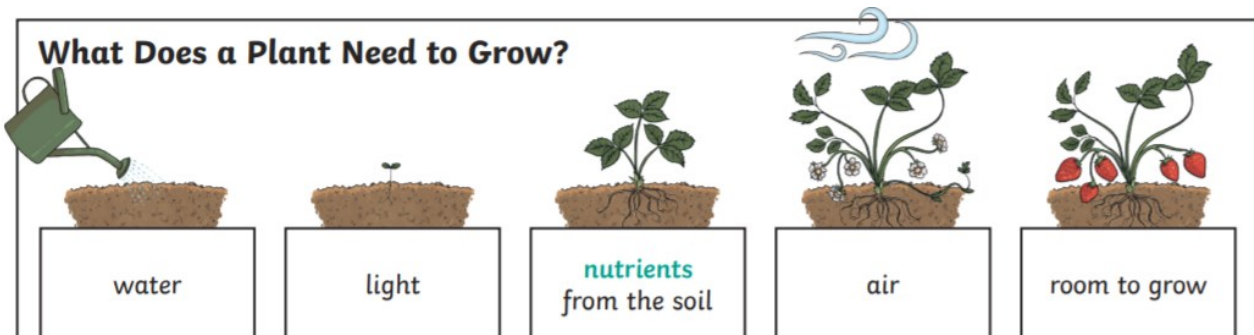
roots	These anchor the plant into the ground and absorb water and nutrients from the soil.
stem	This holds the plant up and carries water and nutrients from the soil to the leaves. A trunk is the stem of a tree.
leaves	These make food for the plant by using sunlight and carbon dioxide from the air.
flowers	These make seeds to grow into new plants. Their petals attract pollinators to the plant.
nutrients	These substances are needed by living things to grow and survive. Plants get nutrients from the soil and also make their own food in their leaves.
evaporation	When a liquid turns into a gas.
fertilisation	When the male and female parts of the flower have mixed in order to make seeds for new plants.
petal	The brightly coloured part of the flower that attracts insects to pollinate the plant.
stamen	The male parts of the flower.
carpel (pistil)	The female parts of the flower.
sepal	Leaf-like structures that protect the flower and petals before they open out.
pollination	When pollen is moved from the male anther of a flower to the female stigma.
pollinator	Animals or insects which carry pollen between plants.
germination	When seed starts to grow.
seed dispersal	A method of moving the seeds away from the parent plant so that the seeds have the best chance of survival.

## Know how to...

Working Scientifically

- Compare the effect of different factors on plant growth.
- Discover how seeds are formed.
- Observe the different stages of plant cycles over a period of time.
- Look for patterns in the structure of fruits that relate to how the seeds are dispersed.
- Observe how water is transported in plants.
- Observe how water travels up the stem to the flowers.

## What Does a Plant Need to Grow?



Different plants vary in how much of these things they need. For example, cacti can survive in areas with little water, whereas water lilies need to live in water.

