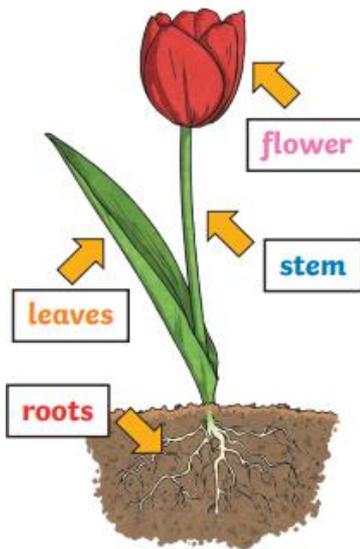




Plants and Growth

SCIENCE KNOWLEDGE ORGANISER

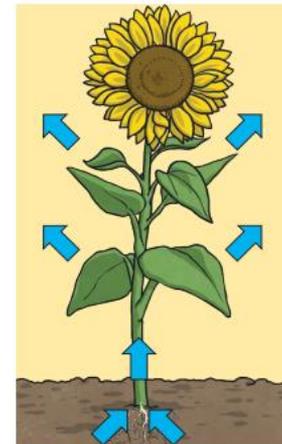
| Key Vocabulary | |
|-----------------------|--|
| Roots | These anchor the plant into the ground and absorb water and nutrients from the soil. |
| Stem | This holds the plant up and carries water and nutrients from the soil to the leaves. A trunk is the stem of the tree. |
| Leaves | These make food for the plant 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. |
| Petal | The brightly coloured part of the flower that attracts insects to pollinate the plant. |
| Germination | When a 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. |



Useful Diagrams

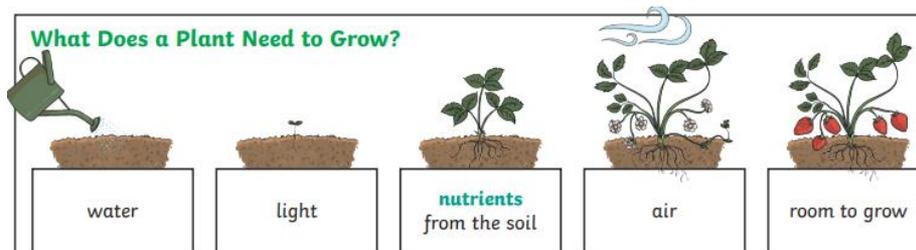
How Water Moves through a Plant

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 the **stem**.



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

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.

LINKS TO PREVIOUS LEARNING

In year 2 you will have learnt how to :

- Observe and describe how seeds and bulbs grow into mature plants
- Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Key Themes

- Functions of different parts of flowering plants.
 - Requirements of plants for life and growth.
- Investigate the way in which water is transported through plants.
 - What part do flowers play in the life cycle of flowering plants?