

# Science • Plants



## Crucial Knowledge

- Many plants, but not all, have roots, stems/trunks, leaves and flowers/blossom.
- The roots absorb water and nutrients from the soil and anchor the plant in place.
- The stem transports water and nutrients/minerals around the plant and holds the leaves and flowers up in the air to enhance photosynthesis, pollination and seed dispersal.
- The leaves use sunlight and water to produce the plant's food.
- Flowers enable the plant to reproduce.
- Pollination is the process of reproduction.



## Key Vocabulary

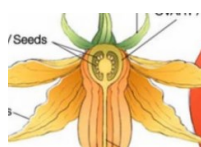


**Photosynthesis** – is the process of plants using sunlight, water and air to create their own food.

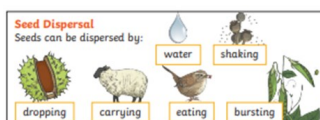
**Pollen** – the fine powder produced on male parts of some plants.



**Pollination** - process that allows plants to reproduce.



**seed formation** – seeds are formed in the female parts of the flower.



**seed dispersal** – method of moving seeds away from parent plant so they have best chance to survive.

## We Are Building Our Knowledge From

- Plants (Y2)

## This will help when we learn about

- Living Things and Their Habitats (Y4)



## Diagrams / Images

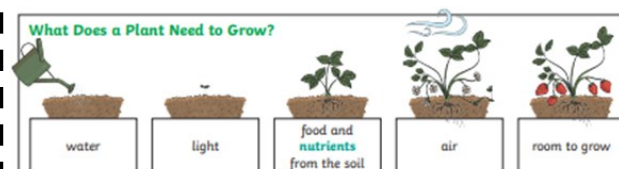
### How Water Moves through a Plant

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**.

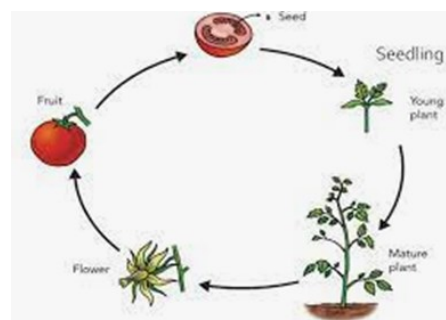


The water is sucked up the **stem** like water being sucked up through a straw.

### 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.



## Important People



**Kate Hardwick** (1967- present) Kate works for the Millennium Seed Bank (MSB). She goes on expeditions to collect seeds. Once her whole face swelled up like a tomato when she was collecting seeds.

**Michael Way** (1967 – present) sets up and runs plant conservation projects across South America.

