

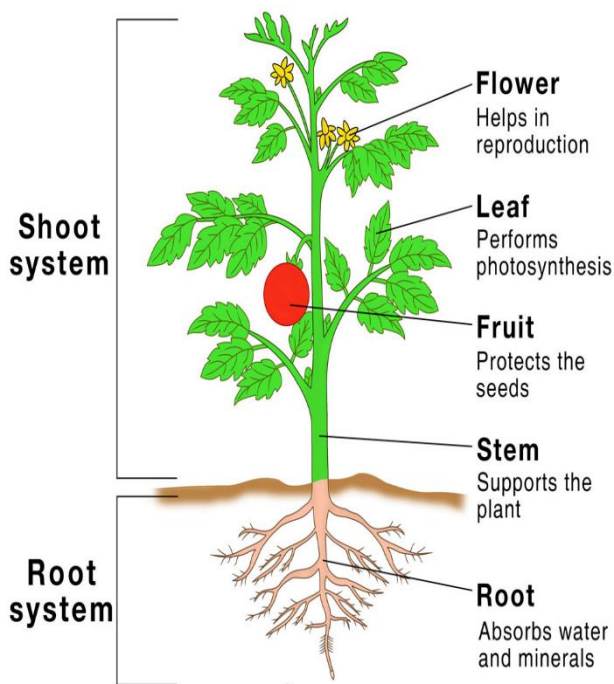
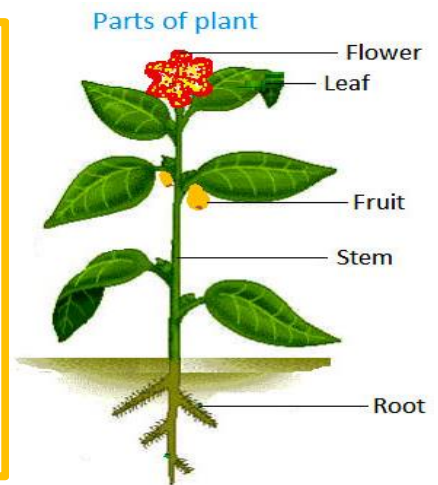
## BIOLOGY - 'How do plants grow?'

### What are the main parts of a plant?

The basic parts of most flowering plants are **roots**, **stems**, **leaves**, **flowers**, **fruits**, and **seeds**.

Each of these parts perform a very important function.

These functions help the plant grow and reproduce.



Notice that each part of the plant has **two** functions.

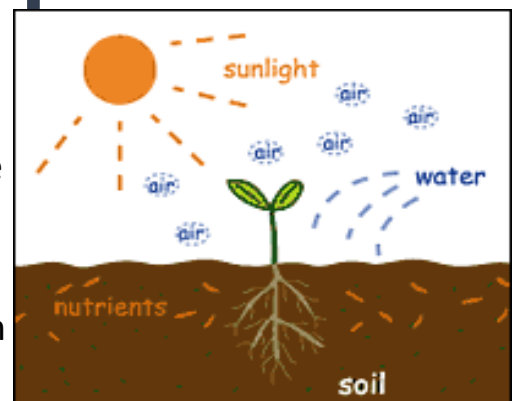
### What are the functions of parts of a plant?

1. Root
  - a) Absorbs minerals and water
  - b) Anchors plant to the ground
2. Stem
  - a) Supports the plant.
  - b) Takes minerals to the leaf.
3. Leaf
  - a) Makes food for the plant
  - b) Absorbs Carbon Dioxide
4. Flower
  - a) holds the seeds for new growth
  - b) Attracts insects for pollination

***SUPERFACT – Dead leaves from deciduous trees provide minerals for next year's growth.***

### What does a plant require for growth?

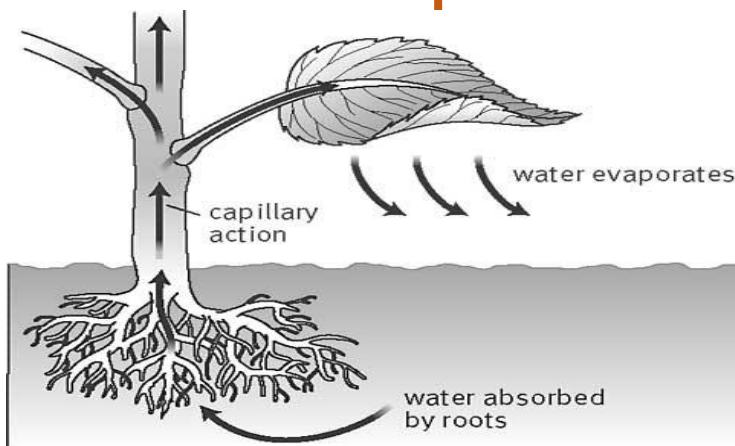
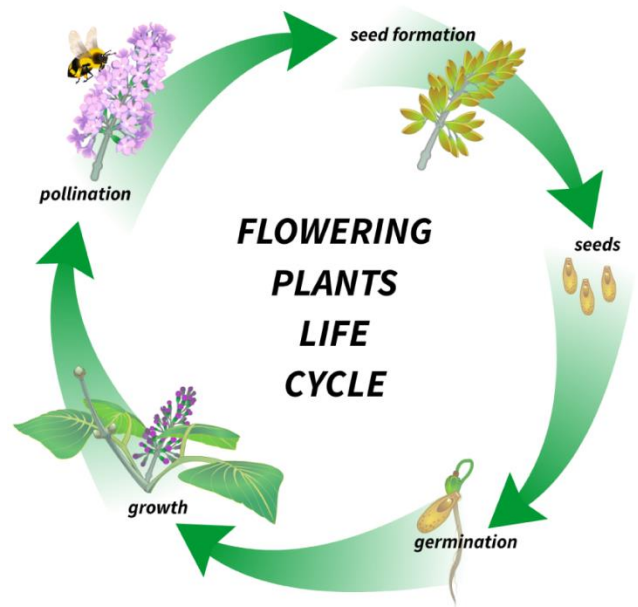
- Plants need five things to grow: sunlight, temperature, water, air, and **nutrients**. These five things are provided by the natural environment where the plants live.
- If any of these requirements are missing, they can stop the plant growing properly.



## Why is the flower important in the plant's life cycle?

<b>seed</b>	The part of a plant which can grow into a new plant.
<b>Pollinate (pollination)</b>	Transferring pollen from the <b>stamen</b> to the <b>pistil</b> .
<b>Disperse (dispersal)</b>	The movement of seeds from the flower to another place.
<b>Germinate (germination)</b>	The seed begins to grow into a flowering plant.

Flowers can have colourful, fragrant petals. They attract insects. The insects **pollinate** the flower so it can produce **seeds** on the flower or inside fruit. The seeds **disperse** to produce new plants.



## How is water transported within plants?

Water moves from the roots to the stem.

In the stem there are small tubes called **xylem**. They carry water up to the leaves and flowers.

This is called **capillary action**

**Superfact - A tree makes a new ring of xylem each year which is why you can count the rings on a tree stump to find out how old it is.**

## Key vocabulary

Spelling	Definition
root	part of a plant which sits underground to support and feed it
stem	the main body or stalk of a plant
flower	the reproducing, seed-bearing part of a plant with by coloured petals
leaf	a flat, green blade structure of a plant, that is attached to a stem
seed	a small pip capable of developing into a new plant
fruit	the fleshy product of a plant that contains seeds and can be eaten
nutrients	substances that provide nourishment for of life and growth
dispersal	the action of distributing or spreading things over a wide area
pollen	a yellow powder from the stamen (male part of a flower)
anther	a small sac that holds the pollen
pistil	the female part of the plant consisting of the stigma and ovary