

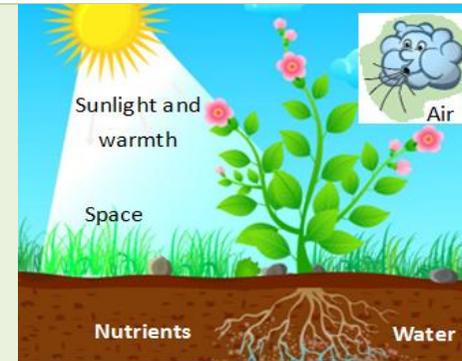
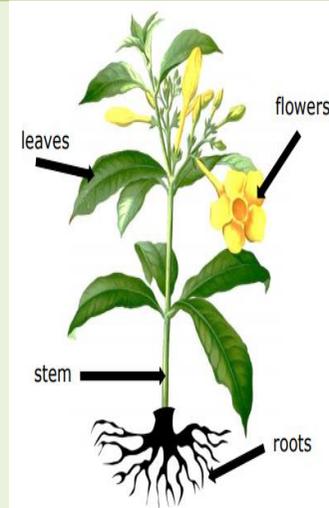


# Plants Year 3

### What I need to know

- Many plants, but not all plants, have roots, stems or trunks, leaves and flowers or blossom.
- Some plants produce flowers which allow the plant to reproduce
- Different plants require different conditions to be able to germinate and grow.
- Roots take up water from the soil and this is transported around the plant.

- The **roots** of a plant take up water and nutrients from the soil. They keep the plant steady and upright in the soil.
- The **stem/trunk** carries water and nutrients to different parts of the plant. They grow upwards and keep the plant upright.
- **Leaves** are responsible for catching the sunlight. They allow water and air to enter the plant to make food for it. They have veins to allow water and nutrients to flow. Leaves come in many different shapes and sizes.
- **Flowers** often smell nice and are brightly coloured to attract insects for pollination. The flower has male and female parts, which work together to make seeds.



- Plants grown in the dark will grow tall and spindly, as it searches for light.
- Plants without enough water will have a weak stem. Its leaves will dry up and it will eventually die.
- A seed will not germinate at all if the temperature is too cold.
- A plant without enough space will not grow properly and may die if it does not get enough light.

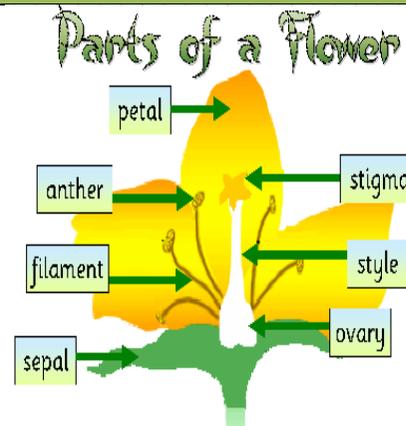


# Plants Year 3

## Key Vocabulary

Pollen	A fine powdery substance produced by plants. It is carried by wind to other plants so they can make seeds.
Nutrients	Something in food that helps humans, animals and plants live and grow.
Fertilisation	When pollen and a plant egg join together to make a seed.
Dispersal	When things are spread out over a wide area.
Germination	The growth of a seed into a young plant or seedling.
Pollination	The process that makes seeds.
Attract	A reason to like something and then go towards it.
Nectar	A sweet liquid in flowers that attracts insects

## Why do some plants have flowers?



- The male part of the flower is called a stamen. It is made up of a filament and an anther.
- Insects are attracted to the bright coloured petals of the flower and feed on the nectar. They get dusted with pollen that is on the stamen.
- The female part of a flower is called the carpel. It is made up of a stigma, style and ovary.
- The insect with the pollen on it lands on the stigma. This is when pollination occurs and a seed is produced.

## How do plants transport water?

Water is found in the soil by the roots.

The water is drawn up from the roots to the stem.

Water reaches the leaves and flowers, keeping them hydrated.

Water escapes the plant as vapour (a gas) through tiny holes.

