

Recap



Plants are a large group of living things that use sunlight to get their **energy**.

Plants have lots of different parts, for example **stems**, **leaves** and **roots**.

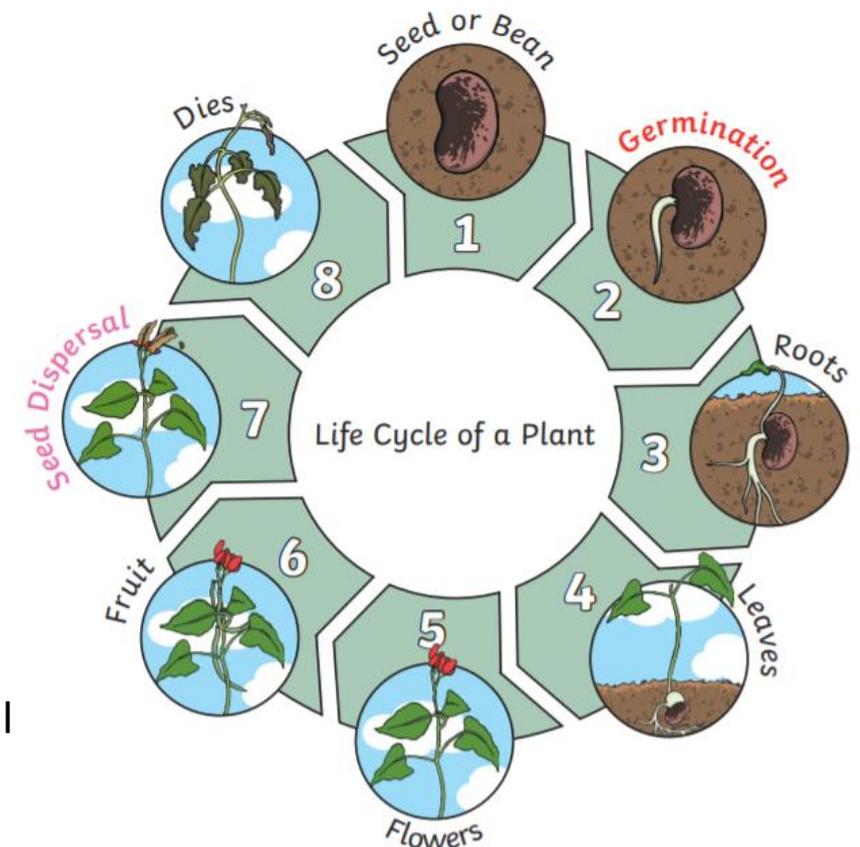
Some trees lose their leaves in the winter (**deciduous**). Some keep their leaves through the year (**evergreen**).

Plants have adapted to suit the **habitats** they live in.

Life Cycle of a Plant

Plants have a clear **life cycle** that helps them to keep reproducing:

- 1 Plants begin life as **seeds**, beans or **bulbs**.
- 2 If there are the right conditions, it will begin to **germinate**.
- 3 It will then become a **seedling**. It will grow **roots** and its first leaf.
- 4 Then it will grow **leaves** so it can use the sunlight to grow.
- 5 **Plants** grow flowers (some trees grow blossoms).
- 6 Some plants produce **fruit**. **Flowers** and fruits produce seeds.
- 7 When the plant dies or is pollinated, the seeds find their way to the soil
- 8 The plant dies.



What Plants Need to Grow



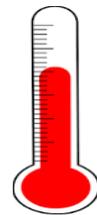
Plants need water and **nutrients** to **survive**.

Plants are able to get water and nutrients from the soil through their **roots**.



Plants need lots of sunlight to help them grow.

Plants do not eat food. They instead use sunlight to make their own food.



Plants need the **temperature** to be just right for them to grow properly and air so they can 'breathe'.

If it is too hot, they may burn and wilt. If it is too cold, they may freeze and die.



Plants need room for their roots and stems to be able to grow.

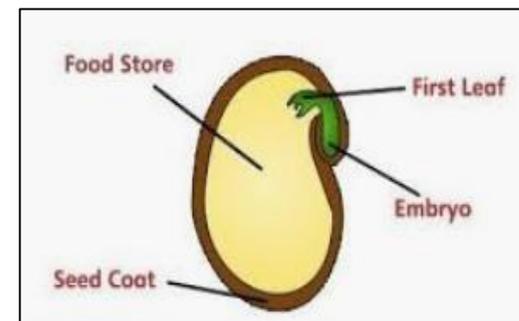
Plants also need time – it can take days, months or even years for them to grow.



Seeds and bulbs

Germination is the name for when a plant starts to grow. A plant is germinating when its seed, bean or bulb begins to sprout. Inside a seed/bulb is the baby plant (an embryo). Seeds and bulbs do not need sunlight in order to grow. They already have their own food store inside them!

However, they do need the right conditions to grow. Normally, they need water, air and the right temperature. This can often be found in well-watered soil!



Smaller Plants

Daisy – about 25 centimetres

Dwarf Evergreen Shrub – about 1 metre

Sunflower – 1-3 metres

Titan Arum Flower – up to 3.5 metres

Spruce (Christmas Tree) – up to 30 metres

Taller Plants

Giant Redwood Tree – 100 metres +