

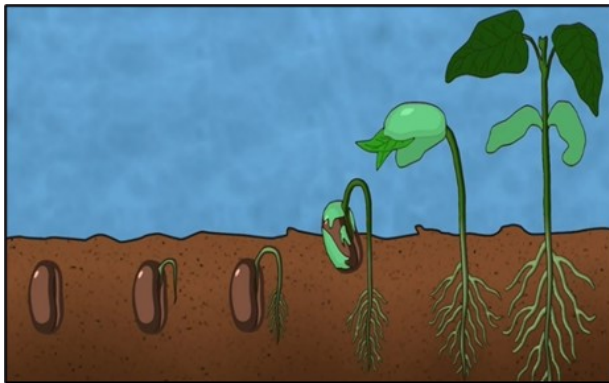


### What should I already know?

- I can identify and name common wild and garden plants and deciduous and evergreen trees.
- I can identify and describe the basic structure of flowering plants and trees.

### Vocabulary

light	Energy that comes from the sun.
warm	Temperature is not hot but not cold.
cool	Temperature that is near cold.
water	Liquid that is needed by all living things.
grow	When things get bigger.
shade	When light is blocked by an object.
healthy	When things grow well.



Seed germination

The moment when a seed starts to grow into a new plant

### What plants need to grow

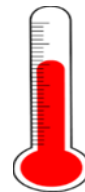
#### Water and Nutrients

- Like animals and humans, plants need water and nutrients to survive.
- Plants are able to get water from the soil through their roots.
- They can also catch water on their leaves.



#### Temperature

- Plants need the temperature to be just right for them to grow properly.
- If it is too hot, they will burn and wilt. If it is too cold, they will freeze and die. This is why there are less plants in deserts and at the poles.



#### Light

- Plants need lots of sunlight to help them grow.
- Plants do not eat food. They use sunlight to make their own food.
- If there is not enough light, the plants get weak.



#### Space and Time

- Plants need room for their roots and stems to be able to grow. Without enough room, they may not grow large enough.
- Plants also need time—it can take days, months or even years for them to grow.



### Seeds or bulbs



seed



bulb

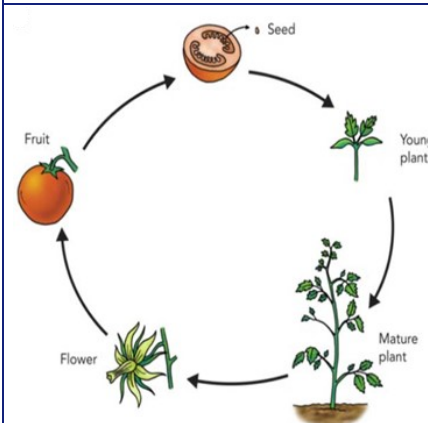
Germination is the name for when a plant starts to grow. When a plant germinates it begins to grow a sprout.

Inside a seed/bulb is a baby plant. Seeds have a tough layer on the outside to protect the plant, which is called the seed coat.

Seeds and bulbs do not need sunlight in order to grow. They already have their own food stored inside them!

However, they do need the right conditions to grow. Normally, they need water, air and the right temperature.

### Plant Life Cycle



Plants have a life cycle that helps keep new plants growing.

**Seeds/bulb**—Plants begin life as seeds or bulbs. They need soil, air and water to grow.

**Seedling**—Plants grow into young plants. They now need light, temperature, water, space and time to keep growing.

**Flowering/Fruit**—Plants grow flowers and fruits. These produce seeds. When the plant dies the seeds find their way to the soil and the process starts again.