



## KEY KNOWLEDGE

Plants need water, light and a suitable temperature to grow.

Plants can grow from seeds or bulbs.

As a seed germinates, the roots grow downwards first then a shoot grows upwards.

Water and nutrients are absorbed through a plant's roots.

## DIAGRAM



## KEY VOCABULARY

**Germination** - When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.

**Sunlight** - All plants need light from the sun to grow well. Some plants need lots of sunlight. Some plants only need a little sunlight.

**Water** - All plants need water to grow. Without water, seeds and bulbs will not germinate.

**Temperature** - Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures.

**Nutrients** - Food or nourishment. Plants make their own food in their leaves using sunlight.

## THINGS TO TALK ABOUT AT HOME

- How many different kinds of plants are in our homes or gardens?
- Which parts of our dinner came from plants?
- What if there were no plants?

## Scientist

**Captain Cook** – English naturalist and botanist

**Agnes Arber** – British botanist

**Alan Titchmarsh** – British botanist & gardener