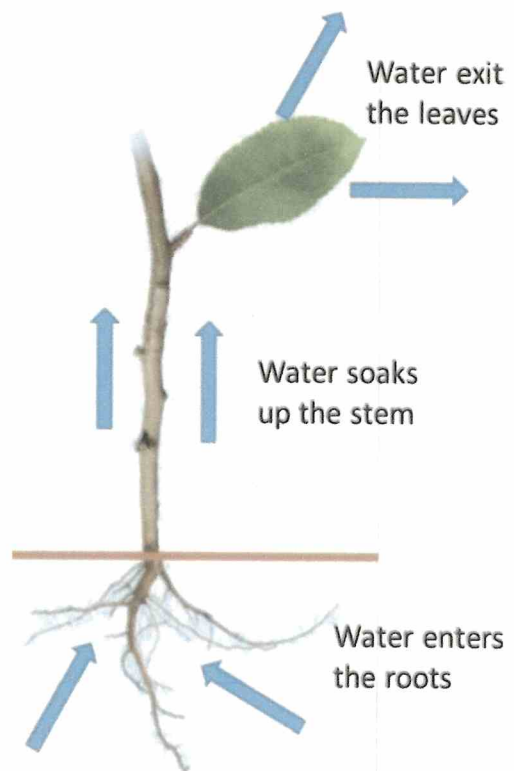


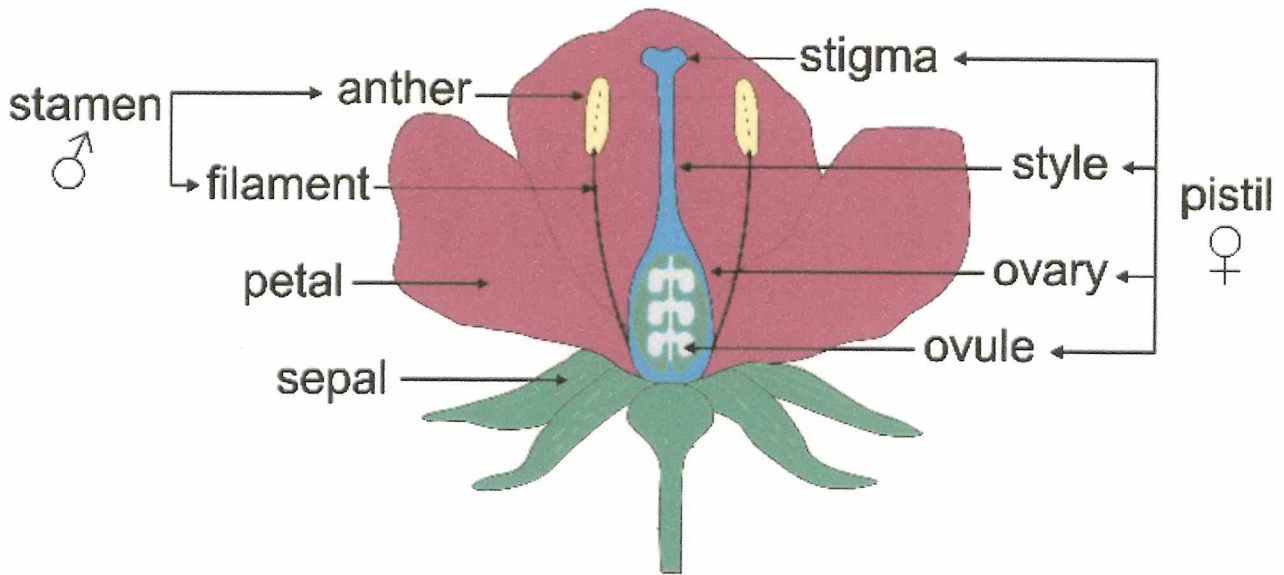
Factor	Effect on plant growth
Light brightness	Increasing the brightness of light during the day increases growth
Water level	Plants need a steady supply of water to increase growth (but not too much!)
Warmth	Plants will grow more quickly in warm conditions (but not too hot!)
Nutrients	Plants will grow more quickly when they have nutrients available (which can be found in soil)

Process	Description
Germination	the process of a plant beginning to grow from a seed
Flowering	when the stem and leaves have grown and a flower begins to bud
Pollination	the process of pollen being moved from anther to stigma
Fertilisation	when pollen travels down to join with an ovule in the ovary
Seed dispersal	how seeds are spread away from a plant to be able to grow in a new location

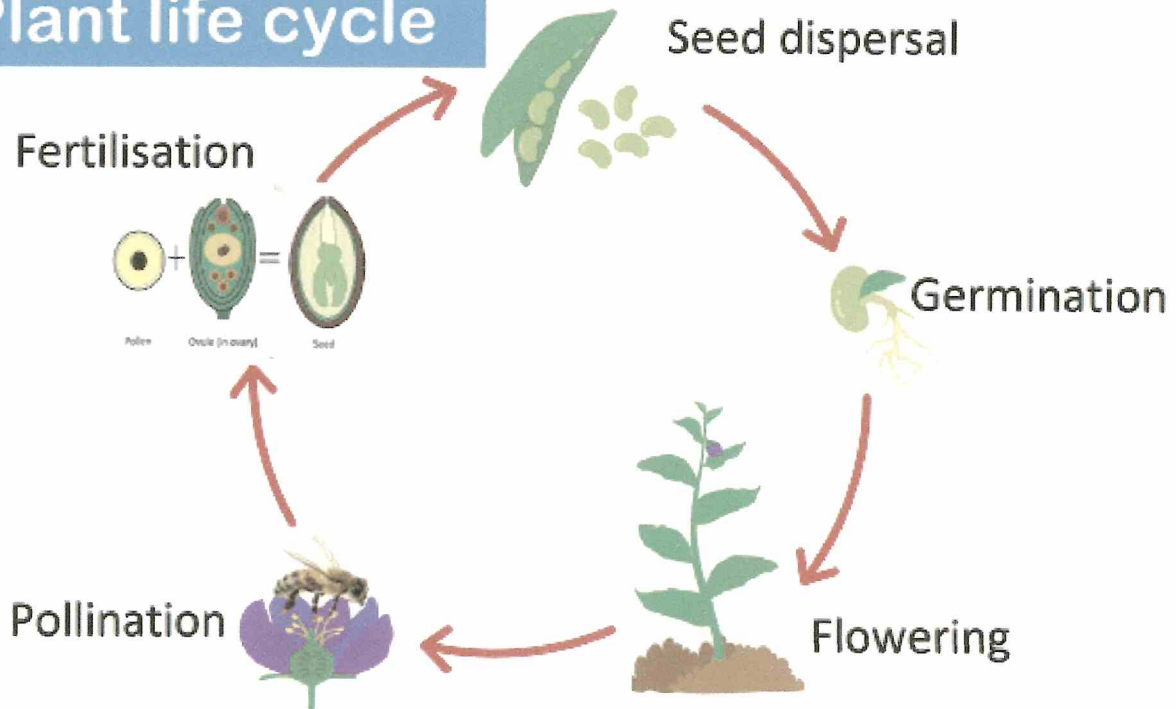
Flower parts	Function
Sepals	the green part that protects flowers before they open
Ovule	the egg part of the plant that contains female sex cells
Ovary	the part of the plant where the ovules are produced
Style	the long stalk that connects the stigma to the ovary
Stigma	the sticky top of the style that collects pollen
Petal	Outer part of a flower that attracts insects (usually with bright colours)
Filament	Thinner long stalk that holds up the anther
Anther	the part that produces pollen (the male sex cell)

Transpiration is the process of water exiting a plant's leaves through small gaps called stomata.





Plant life cycle



Understanding Variables

Independent variable – the thing that you change

Dependent variable – the thing you observe to see how it is affected

Control variables – the things you have to keep the same to make sure it is a fair test.

Plant Adaptations

Plant adaptations are features that plants have that enable them to thrive in a particular environments:

- Very hot conditions
- Very cold conditions
- Avoid being eaten
- For fruit to be eaten by animals
- Attract insects to help pollination take place

Lesson Question	You will learn	Learning Review
<p>What conditions could we change to investigate the growth of a plant?</p>	<ul style="list-style-type: none"> • The 3 main types of variables • What a plant need to survive • How to plan an investigation into the factors that affect plant growth 	
<p>What happens to a plant's growth if we change the conditions it is in?</p>	<ul style="list-style-type: none"> • The main parts and functions of a plant • How to draw a scientific diagram • How to write a conclusion for an investigation 	
<p>What are the main parts and functions of a flowering plant?</p>	<ul style="list-style-type: none"> • What are the main parts of a flower • What are the functions of each of the main parts of a flower • How to identify the parts on a real flower 	
<p>What are the parts of a plant's life cycle?</p>	<ul style="list-style-type: none"> • The parts of a flowering plant's life cycle • The conditions required for germination • Three ways in which seed dispersal takes place 	
<p>How does a plant transport water?</p>	<ul style="list-style-type: none"> • Describe what transpiration is • The three main steps of water transport in plants • How to prove that water moves up a plants stem 	
<p>How do plants adapt to different conditions?</p>	<ul style="list-style-type: none"> • What a plant adaptation is • How plants adapt to extreme hot and cold • How plants adapt to attract animals or keep them away 	