



<b>Science Focus:</b>	Plants	Year 3	Term:
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Functions of the parts of a plant	
The main parts of a plant	Flowers Leaves Stem Roots
Flowers	They have colour and smell to attract insects.
Leaves	They change Carbon Dioxide and water into food for the plant and Oxygen.
Stem	They hold the plant up and carry water from the roots to the rest of the plant.
Roots	They hold the plant in the ground and soak up water and minerals from the soil.
Sometimes plants bear fruit	Fruit is the part of the plant we often eat but its main job is to keep the seeds safe.

How plants grow and survive	
To grow and survive, plants need:	Light Water Carbon Dioxide  This is so that they can make their own food.
	<ul style="list-style-type: none"> <li>• Warmth</li> </ul> This is because if plants get too hot or too cold then they will die.
How does a plant get water?	<ul style="list-style-type: none"> <li>• The roots take up water from the soil. The water travels through the stem of the plant to the leaves.</li> </ul>

Working as a Scientist
<ul style="list-style-type: none"> <li>• Compare the factors that effect plant growth, e.g. the amount of light, amount of water...</li> <li>• Using microscopes to explore parts of flowers.</li> <li>• Investigating ways to speed up pollination with own flowers.</li> </ul>

Organisms rely on other organisms for life
Plants can use sunlight to make food they need and can store food they don't immediately use. Flowering plants can depend on animals for pollination and to spread their seeds.

### Diagrams and Symbols

How a plant takes in water

	What? (Key Vocabulary)
Spelling	Definition/Sentence
Petal	One of the coloured segments of a flower.
Stamen	The male part of a flower containing Pollen.
Carpel	The female part of a flower containing an egg.
Fertilisation	When Pollen and an egg join together to make a seed.
Nectar	A sweet fluid in flowers that attracts insects.

The importance of flowers	
The job of the flower	The flower exists to make new plants. The flower contains the pollen and eggs which make seeds. The seeds grow into new plants.
Parts of the flower	Petal Stamen (The male part of a flower) Carpel (The female part of a flower)  <b>(Look at the second diagram)</b>
Pollen	A powdery yellow substance from the male part of a flower.
Pollination and Fertilisation	For a plant to grow a new seed, Pollen needs to get to its Carpel from another plant.
How does Pollen get from one plant to another?	<b>Insects:</b> The insect goes to the first flower looking for Nectar. Pollen gets stuck to it. When it goes to another flower, the Pollen gets stuck to that flower. <b>Wind:</b> Pollen is blown from one flower to another.
Fertilisation	<ul style="list-style-type: none"> <li>• When the Pollen joins the Egg of the new flower a seed or many seeds are formed.</li> </ul>
How do the new seeds get to the soil to grow?	The seeds are dispersed. This can be done in 3 main ways: <ol style="list-style-type: none"> <li>1. By wind, for example like Dandelion seeds.</li> <li>2. By animals, (they get eaten and pooped out).</li> <li>3. By explosion. Dry seed pods split open and shoot out the seeds.</li> </ol>