




## Year 3: Plants

Key vocabulary	
<b>Fertilisation</b>	Two parts meeting to make a new organism.
<b>Nutrients</b>	A substance that is food for a plant.
<b>Phloem</b>	Small tubes which carry watery sap containing sugar and other organic nutrients to all parts of the plant where the nutrients are used for growth or stored until needed.
<b>Photosynthesis</b>	The way that green plants make their food using sunlight.
<b>Pollen</b>	A fine powder produced by flowers. It fertilizes other flowers of the same species so that they produce seeds.
<b>Pollination</b>	Fertilization of a plant with pollen. This is often done by insects.
<b>Respiration</b>	Converting nutrients from the soil into energy which fuels the plants' cellular activities
<b>Spore</b>	A minute reproductive unit.
<b>Transpiration</b>	The process where plants absorb water through the roots
<b>Xylem</b>	Tubes that carry water and minerals from the roots to other parts of the plants. They also help to support softer parts of the plant.

Key Knowledge	
<b>Preceding</b>	<ul style="list-style-type: none"> <li>A tree has roots, branches, a trunk and leaves. (Y1)</li> <li>A plant has roots, a stem, leaves and flowers. (Y1)</li> <li>To stay healthy plants and trees need water, light and a suitable temperature to grow and stay healthy (Y2)</li> </ul>
<b>Current</b>	<ul style="list-style-type: none"> <li>The roots anchor the plant in the ground and absorb water and minerals.</li> <li>The stem holds the leaves and flowers upright and contains tissues that pass materials up and down the plant.</li> <li>Flowers are the plant's reproductive parts.</li> <li>The leaves are where photosynthesis takes place. Photosynthesis is the process by which plants make their own food.</li> <li>Through photosynthesis plants turn carbon dioxide (obtained from the air through the leaves) and water (obtained from the soil through the roots) into glucose.</li> <li>The minerals are absorbed by the roots and then transported to the leaves</li> <li>It is possible to grow plants without soil, as long as their roots are in water that is rich in minerals and nutrients. This is called hydroponics.</li> <li>Pollen, which is produced by the male part of the flower, is transferred to the female part of other flowers (pollination).</li> </ul>

Scientific Enquiry	
<b>Comparative tests</b>	<p>Does the same seed need the same conditions to grow?</p>  <p>Compare different seeds to see what conditions seeds need to grow.</p> 
<b>Research</b>	<p>What are all the different ways that seeds disperse?</p> 
<b>Observing over time.</b>	<p>What happens to celery when it is left in a glass of coloured water?</p> 