



Leamington Primary Science Knowledge Organiser

Year 3 – Plants

Strand – Biology



See	What I will learn	Important words to help me. (vocabulary)	Ideas for Scientific Enquiry																														
Interesting Facts	<p>What do parts of a flowering plant do?</p> <ul style="list-style-type: none"> - I will learn that there are male and female parts of a flower. - The male part produces pollen and consists of 2 parts: anther and stalk/filament. - The petals are brightly coloured to attract bees and insects for pollination. <p>How do plants survive?</p> <ul style="list-style-type: none"> - I will explore the requirements of plants for life and growth and how they vary from plant to plant. - I will investigate the way in which water is transported within plants. <p>What is the life cycle of a flowering plant?</p> <ul style="list-style-type: none"> - I will learn which part of the flowers play an important role in the life cycle of flowering plants, including germination, pollination, seed formation and seed dispersal. - Germination is the development of a seed into a plant. - Pollination is the transfer of pollen from a male part of a plant to a female part of a plant, later enabling fertilisation and the production of seeds. - Seed formation is the formation of the seed in part of the process of reproduction in seed plants. - Seeds can be dispersed in different ways: Wind dispersal: dandelions have fruits with parachutes of hairs that catch the wind and are blown about. Water dispersal: fruits which float, such as those of the water lily and the coconut palm are carried by water. When animals travel to other areas, they transport 	<table border="1"> <tr> <td>Pollination</td> <td>The transfer of pollen to a stigma, ovule, flower, or plant to allow fertilisation.</td> </tr> <tr> <td>Germination</td> <td>The development of a plant from a seed.</td> </tr> <tr> <td>Photosynthesis</td> <td>The process that plants produce their own food.</td> </tr> <tr> <td>Seed dispersal</td> <td>The movement, spread or transport of seeds away from the parent plant.</td> </tr> <tr> <td>Anther</td> <td>The male part of a plant.</td> </tr> <tr> <td>Pistil</td> <td>The female part of a plant.</td> </tr> <tr> <td>Fertilisation</td> <td>The action or process of fertilising an egg or a female animal or plant.</td> </tr> <tr> <td>Life cycle</td> <td>The series of life changes in an animal, plant or human.</td> </tr> <tr> <td>Flower</td> <td>The part of the plants that blossoms.</td> </tr> <tr> <td>Bulb</td> <td>A rounded underground storage organ present in some plants.</td> </tr> <tr> <td>Fertiliser</td> <td>A chemical or natural substance added to soil or land to increase its fertility.</td> </tr> <tr> <td>Nutrients</td> <td>A substance that provides nourishment essential for the maintenance of life and for growth.</td> </tr> <tr> <td>Seed formation</td> <td>Seed formation begins with the combination of a male and female gamete: a process known as fertilization.</td> </tr> <tr> <td>Classify</td> <td>This is the grouping together of similar species of plant, animal and other organisms. This means to group similar species together compared by their similarities and differences.</td> </tr> <tr> <td>Water</td> <td>An explanation of the conditions needed for plant growth, with particular emphasis on water requirements.</td> </tr> </table>	Pollination	The transfer of pollen to a stigma, ovule, flower, or plant to allow fertilisation.	Germination	The development of a plant from a seed.	Photosynthesis	The process that plants produce their own food.	Seed dispersal	The movement, spread or transport of seeds away from the parent plant.	Anther	The male part of a plant.	Pistil	The female part of a plant.	Fertilisation	The action or process of fertilising an egg or a female animal or plant.	Life cycle	The series of life changes in an animal, plant or human.	Flower	The part of the plants that blossoms.	Bulb	A rounded underground storage organ present in some plants.	Fertiliser	A chemical or natural substance added to soil or land to increase its fertility.	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Water	An explanation of the conditions needed for plant growth, with particular emphasis on water requirements.	<p><u>Classifying and Grouping</u></p> <ul style="list-style-type: none"> - Explore the male and female parts of a flowering plant. <p><u>Secondary Sources</u></p> <ul style="list-style-type: none"> - Use secondary sources to gain further information on the jobs of the different parts of the plant. <p><u>Observation Overtime</u></p> <ul style="list-style-type: none"> - Observe the changes overtime as a plant grows in different conditions. <p><u>Pattern Seeking</u></p> <ul style="list-style-type: none"> - Investigate how seeds can be dispersed in different ways such as through wind, water, animals and explosion. - Discover the importance of the role of the weather in the reproduction of plants and flowers. - Explore the different stages of the life cycle of a plant in detail. Including germination, pollination, seed formation and seed dispersal.
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	<p>seeds. When animals excrete their waste, seeds end up in other locations.</p>		
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