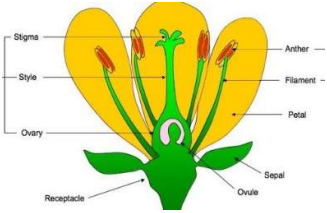
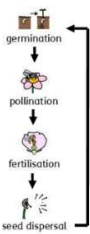


St. Martin's Primary School - Science

Topic: Plants

Year: 3

Strand: Biology

What should I already know?		Vocabulary	
<ul style="list-style-type: none"> Which things are living and which are not. A variety of common wild and garden plants, including deciduous and evergreen trees and how to identify them. The structure of common flowering plants, including trees (including leaves, flowers, fruits, roots, bulbs, seeds, stem, trunks and branches) Seeds and bulbs grow into mature plants Plants need water, light and a suitable temperature to grow and stay healthy. Different vegetation belts and climate zones around the world Plants and animals depend on each other to survive. 		absorb	soak up or take in
		anther	the part of a stamen that produces and releases the pollen
		branches	parts that grow out from the tree trunk and have leaves, flowers, or fruit growing on them
		bulb	a root shaped like an onion that grows into a flower or plant
		carbon dioxide	a gas produced by animals and people breathing out
		climate zone	sections of the Earth that are divided according to the climate. There are three main climate zones; polar, temperate and tropical.
What will I know by the end of the unit?		deciduous	a tree that loses its leaves in the autumn every year
The functions of the different parts of flowering plants.	<ul style="list-style-type: none"> The petals on a flower are usually bright - this is to attract bees and other insects so that they can collect pollen to make seeds. The seeds are then able to grow to make new plants. This is called germination. Leaves use carbon dioxide and sunlight to make food for the plant. The stem carries water and other nutrients from the roots to the rest of the plant. Leaves use this water to make food. The stem also helps to keep the plant upright so that the sunlight can reach it easier. The roots help to 'anchor' the plant in the soil. They also absorb water and nutrients from the soil for the stem to carry to the rest of the plant. 	dispersed	scattered, separated, or spread through a large area
		dissect	to carefully cut something up in order to examine it scientifically
		evergreen	a tree or bush which has green leaves all the year round
		fertilisation	in plants , where pollen meets the ovule to form a seed
		fertiliser	a substance that is added to soil in order to make plants grow more successfully
		flower	the part of a plant which is often brightly coloured and grows at the end of a stem
What do different plants need to grow?	<ul style="list-style-type: none"> air water sunlight nutrients from the soil room to grow suitable temperature <p>The amount of each of these may vary depending on the type of plant. For example, cacti need less water than other plants.</p>	flowering	trees or plants which produce flowers
		fruit	something which grows on a tree or bush and which contains seeds or a stone covered by a substance that you can eat
		function	a useful thing that something does
		garden	a piece of land next to a house, with flowers , vegetables, other plants , and often grass
		germination	if a seed germinates or if it is germinated , it starts to grow
		healthy	well and not suffering from any illness
How is water transported within plants?	<ul style="list-style-type: none"> Water is absorbed from the soil by the roots. It is then transported from the roots to the stem and then to the rest of the plant. 	leaf / leaves	the parts of a tree or plant that are flat, thin, and usually green
		life cycle	the series of changes that an animal or plant passes through from the beginning of its life until its death
		mature	When something matures , it is fully developed
		nutrients	substances that help plants and animals to grow
		ovule	a small egg
		petal	thin coloured or white parts which form part of the flower
How do flowers help in the life cycle of flowering plants?	<ul style="list-style-type: none"> The flower's job is to create seeds so that new plants can grow. Pollination occurs when pollen from the anther is transferred to the stigma by bees and other insects. The pollen then travels down and meets the ovule. When this happens, seeds are formed - this is called fertilisation. Seeds are then dispersed so that germination can begin again. 	plant	a living thing that grows in the earth and has a stem, leaves, and roots
		pollen	a fine powder produced by flowers . It fertilises other flowers of the same species so that they produce seeds
		pollination	To pollinate a plant or tree means to fertilise it with pollen . This is often done by insects
		roots	the parts of a plant that grow under the ground
		seed	the small, hard part from which a new plant grows
		stem	the thin, upright part of a plant on which the flowers and leaves grow
Diagrams		stigma	the top of the centre part of a flower which takes in pollen
		structure	the way in which something is built or made
		temperature	a measure of how hot or cold something is
<div style="background-color: #92d050; text-align: center; padding: 5px;">Investigate!</div> <ul style="list-style-type: none"> Compare the effect of different factors in plant growth (e.g. the amount of water, the amount of light and the amount of fertiliser). Discuss how to make this a fair test. Place white carnations in dyed water to observe how plants transport water. Discover how seeds are formed by observing plant life cycles. Dissect fruits to observe their structure and use this to explain how seeds are dispersed. Dissect a flower and identify each of the different parts that help with fertilisation. 		transported	taking something from one place to another
		tree	a tall plant that has a hard trunk, branches, and leaves
		trunk	the large main stem from which the branches grow
		vegetation	plants, trees and flowers
		wild	animals or plants that live or grow in natural surroundings and are not looked after by people

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Question 1: Tick ONE thing all the seeds must have to start to grow.	Start of unit:	End of unit:
light		
water		
salt		
soil		

Question 2: Which of these best describe the function of roots (tick two)?	Start of unit:	End of unit:
to make seeds		
to absorb water and nutrients		
to anchor the plant in the ground		
to attract bees and insects		

Question 3: Write down the numbers 1-4 to show the order in which parts of a plant grow.	Start of unit:	End of unit:
leaves grow		
the stem grows		
roots grow		
the flower grows		

Question 4: Which part of the plant makes new food?	Start of unit:	End of unit:
leaf		
flower		
roots		
stem		

Question 5: A flower has just grown on a plant. What is the next stage of the life cycle?	Start of unit:	End of unit:
fertilisation		
pollination		
germination		
seed dispersal		

Question 6: A stick of celery is placed in red water. What will happen next?	Start of unit:	End of unit:
nothing		
it will grow roots		
the leaves will turn red		

Question 7: This diagram shows the life cycle of a plant. Which box shows where germination happens?	Start of unit:	End of unit:
A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>		

Question 8: Some wild flowers have petals with bright colours because...	Start of unit:	End of unit:
they are pretty		
to attract birds and bees		
they have ALL been placed in dye		
the sun makes them bright		

Question 9: Birds and insects are important for plant growth because they help with....(tick two):	Start of unit:	End of unit:
fertilisation		
pollination		
germination		
seed dispersal		

Question 10: Draw lines to match each part of the plant to its function:	Start of unit:	End of unit:
roots create seeds leaves absorb water and minerals and keep plants 'anchored' stems make new food for the plant flowers carry water and minerals to the plant and keep it upright		