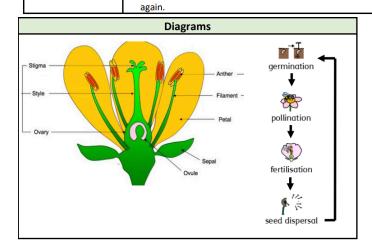
Caroline Haslett Primary School - Science Topic: Plants Year 3

What should I already know?

- 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
- Different vegetation belts and climate zones around the world
- Plants and animals depend on each other to survive.

What will I know by the end of the unit? The • The petals on a flower are usually bright - this is to functions of the attract bees and other insects so that they can collect different parts of pollen to make seeds. flowering plants. The seeds are then able to grow to make new plants. This is called germination. flower Leaves use carbon dioxide and sunlight to make food for the plant. seed • The stem carries water and other nutrients from the roots to the rest of the plant. Leaves use this water to stem make food. The stem also helps to keep the plant upright so that the roots 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. What do different • air plants need to water grow? sunlight nutrients from the soil room to grow suitable temperature The amount of each of these may vary depending on the type of plant. For example, cacti need less water than other plants. How is • Water is absorbed from the soil by the roots. water transported • It is then transported from the roots to the stem and within plants? then to the rest of the plant. How do • The flower's job is to create seeds so that new plants flowers help in the can grow. life cycle of • Pollination occurs when pollen from the anther is flowering plants? 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

Seeds are then dispersed so that germination can begin

	Vocabulary
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,
brancies	flowers, or fruit growing on them
bulb	a root shaped like an onion that grows into a flower or
Duib	plant
carbon	a gas produced by animals and people breathing out
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.
common	something that is found in large numbers or it happens
	often
deciduous	a tree that loses its leaves in the autumn every year
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
flavoring	grows at the end of a stem
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
function	can eat
Turiction	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
germination	
healthy	well and not suffering from any illness the parts of a tree or plant that are flat, thin, and usually
leaf / leaves	green
	the series of changes that an animal or plant passes
life cycle	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
	00
petal	thin coloured or white parts which form part of the flower a living thing that grows in the earth and has a stem , leaves ,
plant	and roots
	a fine powder produced by flowers . It fertilises other
pollen	flowers of the same species so that they produce seeds
	To pollinate a plant or tree means to fertilise it with pollen .
pollination	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
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
transported	taking something from one place to another
tree	a tall plant that has a hard trunk , branches , and leaves
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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
	Investigate!

- 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 what would 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

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