

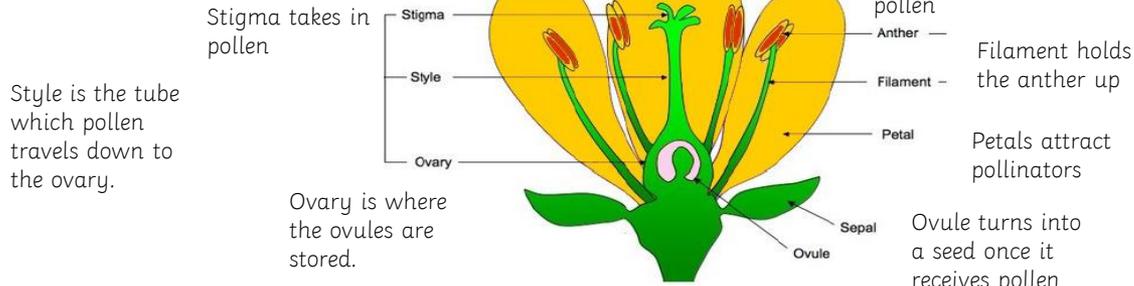
Key Concepts

Key Vocabulary

How are plants adapted to their habitats?

- Depending on where the plant is growing, it may need more or less air, space, water, light and temperature.
- Plants in hot deserts have adapted to store water within their trunks or stems so that they can survive when there is little rain.

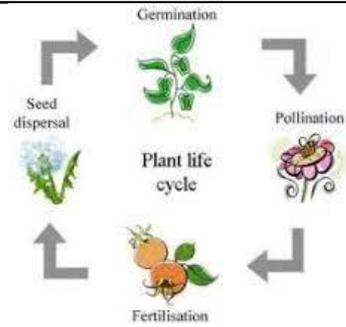
What are the parts of a flower?



anther	the part of a stamen that produces and releases the pollen
dispersed	scattered, separated, or spread through a large area
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
germination	if a seed germinates or if it is germinated, it starts to grow
mature	When something matures, it is fully developed
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
stigma	the top of the centre part of a flower which takes in pollen

What is the life cycle of a flowering plant?

- The flower's job is to create seeds so that new plants can grow.
- After being planted in the soil for a few days, the seed absorbs water. The stem pushes through the soil along with the seed leaves; this is called germination.
- 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



How do plants disperse their seeds?

- Seeds are spread in many ways including: wind, animals, water and ballistic.

Wind	Animals	Water	Ballistic (explosion)

Famous Scientists



Barbara McClintock (1902 –1999) was an American botanist (someone who studies plants) who won the Nobel prize for her work on the healing powers of plants.

Working Scientifically Skills

??	Asking relevant questions.		Setting up enquiries and choosing equipment.
	Explaining results – drawing conclusions and using results.		Recognising when to use other sources of information to find answers.