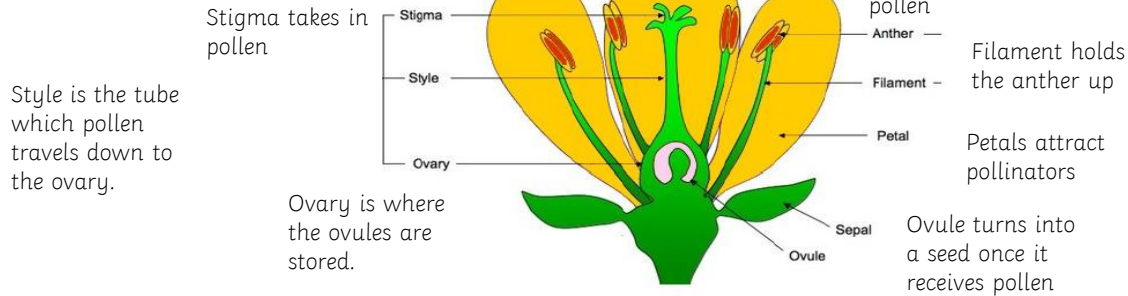


### Key Concepts

#### How are plants adapted to their habitats?

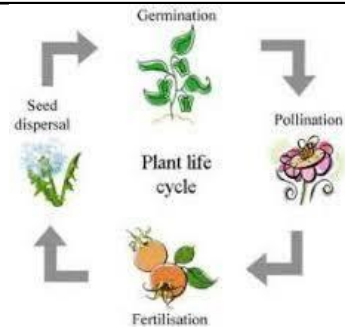
- Depending on where the plant is growing, it may need more or less air, space, water, light and temperature.
- Plants in hot deserts have adapted to store water within their trunks or stems so that they can survive when there is little rain.

#### What are the parts of a flower?



#### 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)



### Key Vocabulary




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

### 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.