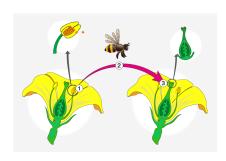
KNOWLEDGE ORGANISER BIG IDEA: ECOSYSTEMS

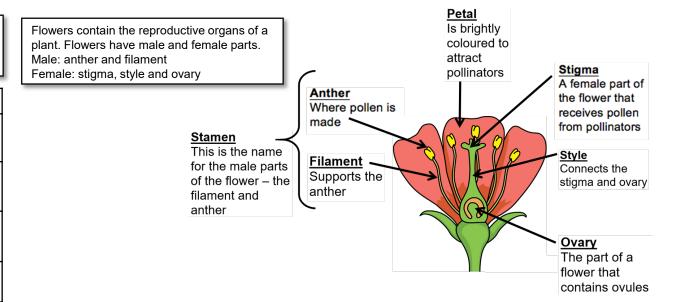
TOPIC: PLANT REPRODUCTION

Key Word	Definition
fertilisation	Joining of a nucleus from a male and female sex cell.
germination	a process, controlled by enzymes , in which the seed begins to develop into a new young plant.
ovules	Female sex cells in plants found in the ovary.
pollen	Contains the plant male sex cells found on the stamens.
pollination	Transfer of pollen from the male part of the flower to the female part of the flower on the same or another plant.
seed	Structure that contains the embryo of a new plant.

Pollination

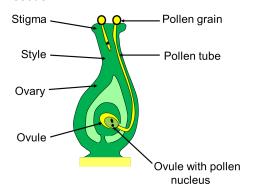
Pollination is when **pollen** is transferred from the anther to the stigma. This can be within one flower or between different flowers. Pollen from the anther can be carried by insects such as bees or can be carried by the wind. The stigma is sticky to make sure that pollen sticks to it.





Fertilisation

Fertilisation is when the nucleus of the male sex cell (pollen) and the female sex cell (ovule) join together. After pollination has occurred, the nucleus of the pollen has to travel down the style until it reaches the ovary. It then joins with the nucleus of an ovule and the plant is said to be fertilised. The ovary then becomes a fruit and the ovules become seeds.



Seed dispersal

Seeds develop into new plants. They are dispersed (moved away) from the parent plant so that they have enough room and nutrients to grow. Seeds can be dispersed by:

- The wind
- Animals
- Explosions
- water



Dandelion seeds have parachute like structures so they are easily moved by the wind.



Sandbur has hooks so that it clings to animal fur



Coconuts have air spaces so they can float on water



Pea pods split open and the seeds are thrown out