

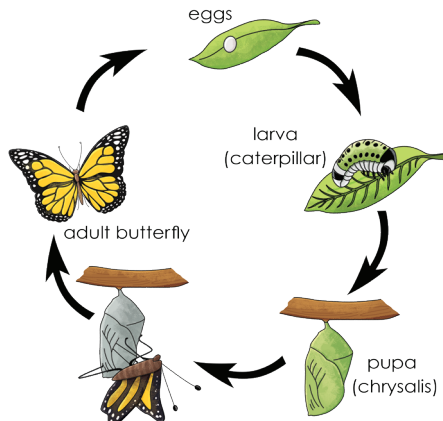
### Life cycles

A life cycle is a sequence of stages in the life of a living thing. It includes:

birth → growing → reproduction → death

Life cycles keep repeating to produce new living things of the same species (kind or type of organism).

### Insect life cycles



Insects are invertebrates (they do not have a backbone). Most insects change dramatically during their life cycle

Some caterpillars metamorphasise into butterflies.

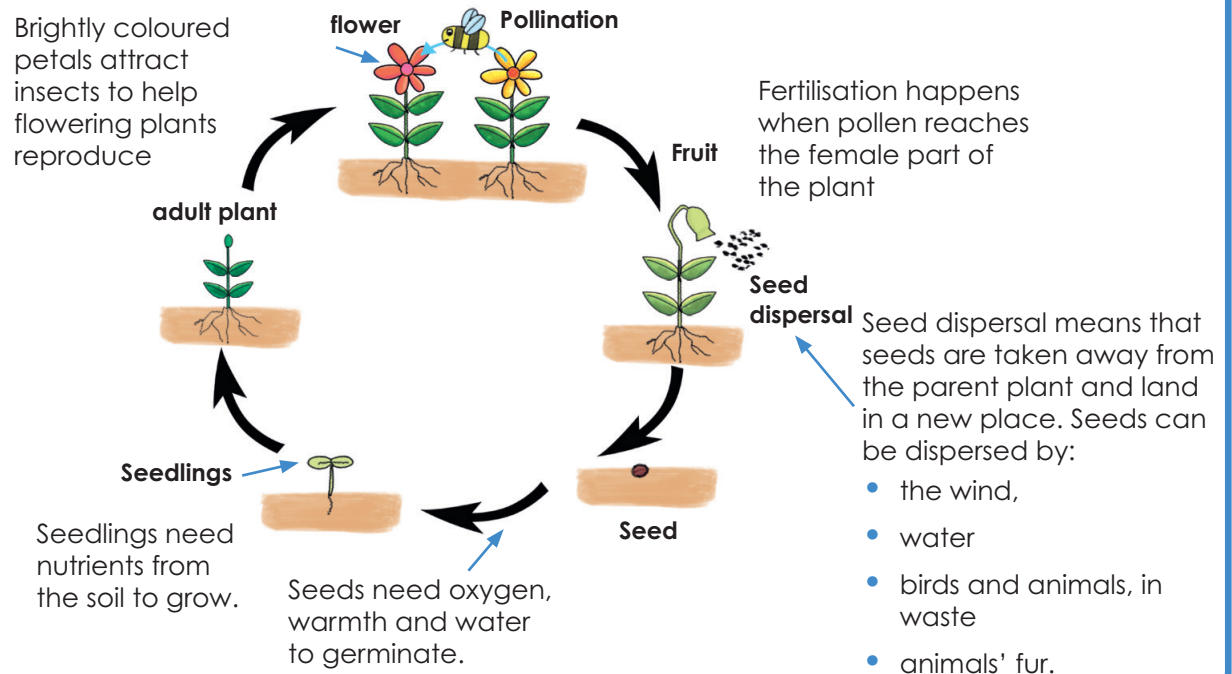
### Bird and amphibian life cycles

	Bird	Amphibian
Where are the eggs fertilised?	Internally	Externally
What is laid?	Eggs, from which live birds hatch	Spawn, which is fertilised to create tadpoles

### Flowering plant life cycles

There are two types of plant: flowering and non-flowering.

Brightly coloured petals attract insects to help flowering plants reproduce

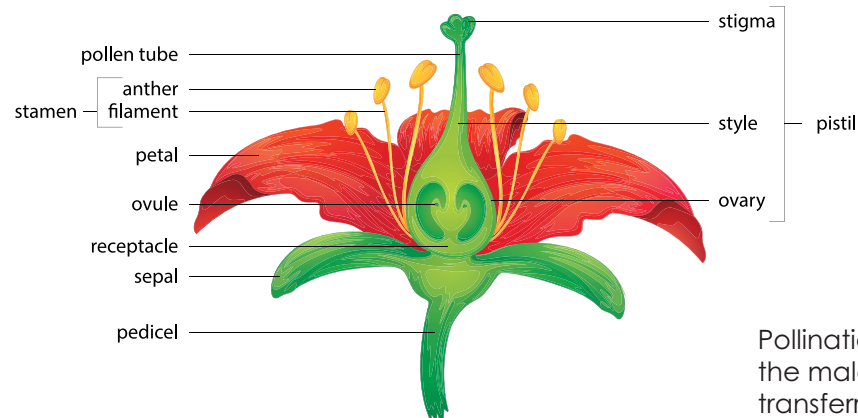


Fertilisation happens when pollen reaches the female part of the plant

Seed dispersal means that seeds are taken away from the parent plant and land in a new place. Seeds can be dispersed by:

- the wind,
- water
- birds and animals, in waste
- animals' fur.

### Parts of a Flower



Pollination is when pollen from the male part of the flower is transferred to the female part

Word	Definition
amphibian	Small vertebrate animals that need to live in or near water.
asexual reproduction	Making a new living thing from just one parent.
disperse	The action of spreading something over a wide area.
embryo	The early stage of an offspring developing in an egg or uterus.
environmentalist	A person concerned with the protection of the environment.
fertilisation	The combining of male (for example, sperm) and female (for example, egg) parts in reproduction.
germination	The process of a seed growing into a seedling.
larva	The young form of an animal, often very different from its adult shape.
life cycle	The sequence of changes in a living thing, including reproduction.
mammal	Animals that have fur and produce milk to feed their young.
metamorphosis	A great change in an animal's shape and character.
naturalist	Someone who studies plants and animals in their natural surroundings.
offspring	The product of the reproductive processes of an animal or a plant.
pistil	The female reproductive part of a flower that can grow into seeds.
pollination	Movement of pollen to a place where it can fertilise seeds.
pupa	A stage of change in an insect's lifecycle.
sexual reproduction	Making a new living thing from two parents.
species	A group of animals or plants with similar characteristics who reproduce to make new living things.
spores	Parts of a plant that can travel and grow without another plant.
stamen	The male reproductive part of a flower containing pollen.