

NPA Knowledge Organiser: Year 5 Science - Spring 2



Asexual reproduction – Only one parent is needed. This occurs mostly in plants and bacteria.

Bulb – A round root of some plants from which the plant grows.

Cutting – A piece, such as a root, stem or leaf cut from a plant and used to grow another plant of the same type.

Fertilise – In animals: When the male sperm reaches the female egg.
In plants: When the male pollen reaches the female ovule.

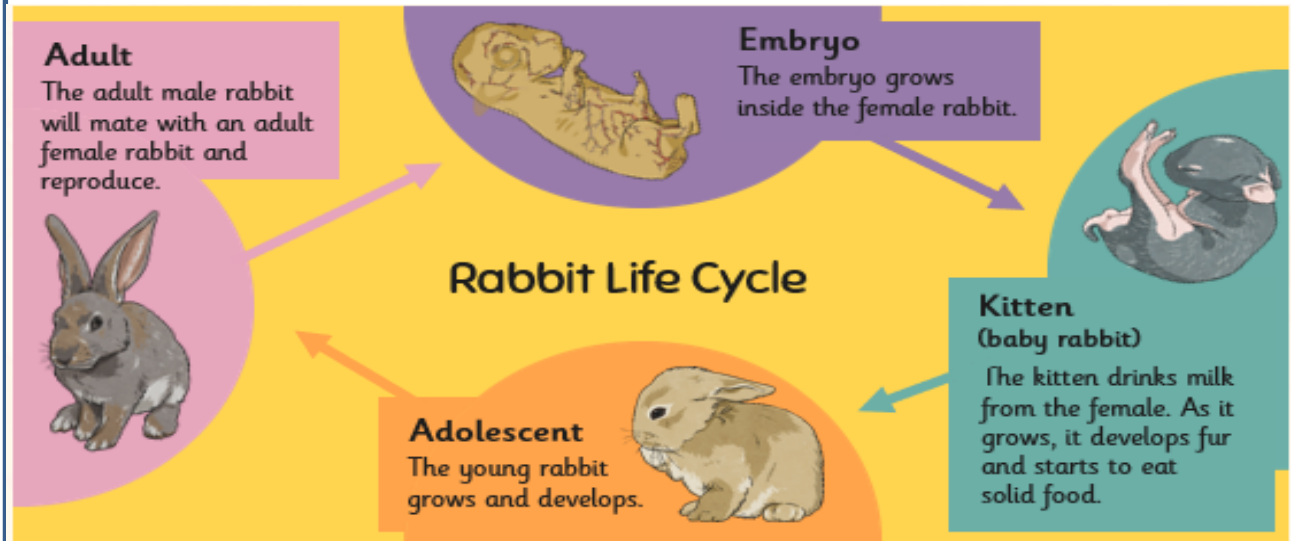
Life cycle – This shows how things are born, how they grow and how they reproduce.

Metamorphosis – A major change from one form to another in the life cycle of some animals when they change from young to an adult.

Living things and their habitats

Life cycles

Animals go through lots of changes during their life. Patterns in the way they grow and behave in the time between birth and death are called a life cycle.



Jane Goodall (1934 - Present)

Jane Goodall is a British scientist who has studied chimpanzees for many years. She is considered to be the world expert on chimpanzees and their behaviour.

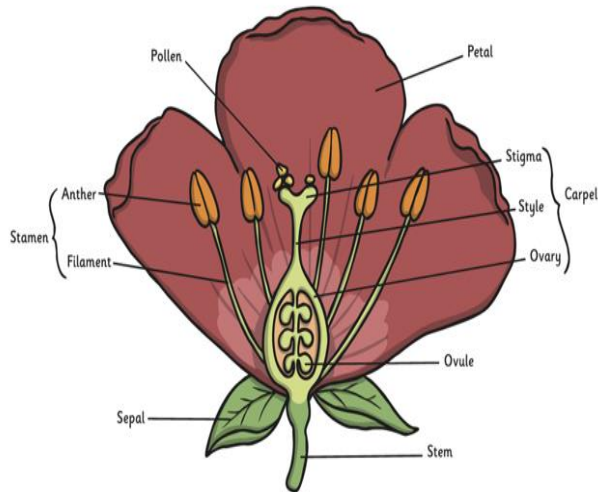
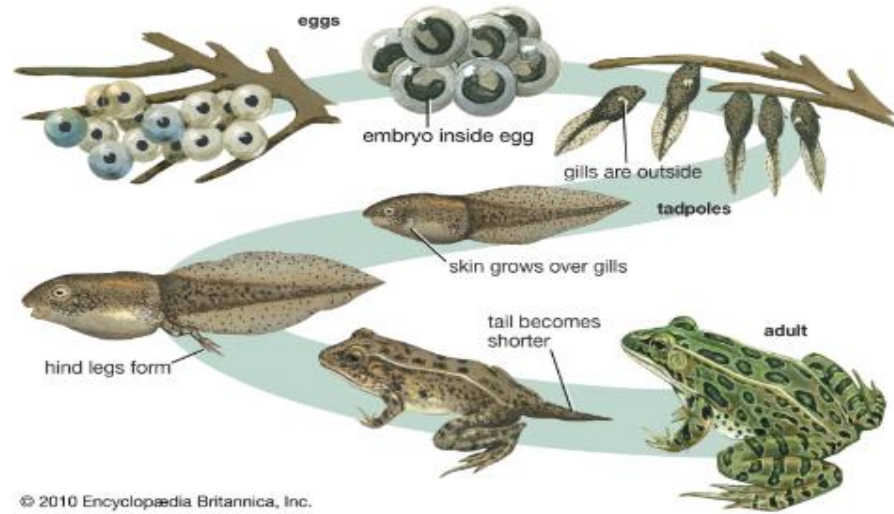
Goodall was born in 1934 in London. When she was a child, her father gave her a chimpanzee toy, which began her lifelong love of animals.



“An understanding of the natural world and what's in it is a source of not only a great curiosity, but great fulfilment.” - David Attenborough

Metamorphosis

Metamorphosis is the transformation that the young of some species must go through in order to become adults. Frogs and butterflies are both examples of living things that go through this process.



Pollination

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.

By the end of this unit, you will know:

- The differences in the life cycles of mammals, amphibians, insects and birds.
- The life process of reproduction in some plants and animals.