



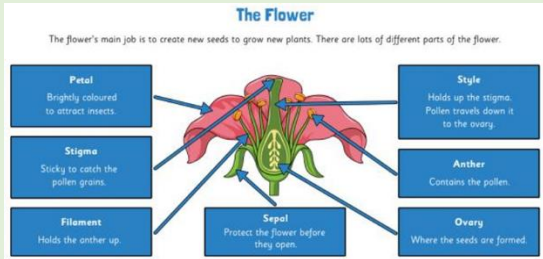
Knowledge Organiser

Science	Year 5	Topic: Living things and their habitats
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Prior Knowledge	Knowledge and application
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Animals can be grouped into vertebrates (and then further into fish, reptiles, amphibians, birds and mammals) and invertebrates. Some examples of life cycles (including those of plants and humans) The processes of dispersal, fertilisation and germination.

Reproduction is one of the seven life processes. Parts of a plant, their features and what their functions are.



Humans develop inside their mothers and are dependent on their parents for many years until they are old enough to look after themselves.

Amphibians such as frogs are laid in eggs then, once hatched, go through many changes until they become an adult.

Some animals, such as butterflies, go through metamorphosis to become an adult.

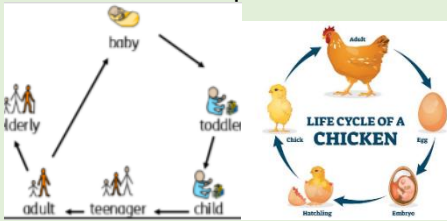
Birds are hatched from eggs and are looked after by their parents until they are able to live independently.

Some living things, such as plants, contain both the male and female sex cells. In others, such as human, they contain either the male or female sex cell.

Most plants contain both the male sex cell (pollen) and female sex cell (ovules) but most plants can't fertilise themselves. Wind and insects help to transfer pollen to a different plant. The pollen from the stamen of one plant is transferred to the stigma of another. The pollen then travels down a tube through the style and fuses with an ovule

What will I know by the end of this topic?

Be able to describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.

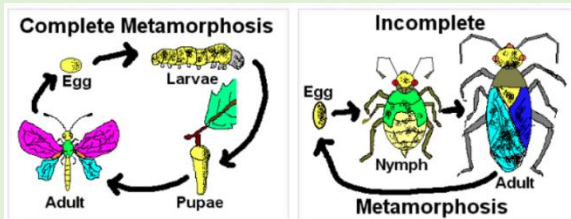


To describe the life processes of reproduction in some plants and animals.

Know that reproduction is when an animal or plant produces one or more individuals similar to itself.

Know what metamorphosis is and which type of animals go through it.

Know about the work of a famous naturalist.



Know the different types of reproduction including sexual and asexual reproduction in plants, and sexual reproduction in animals.

Books/ Websites

- <https://www.discoverwildlife.com/>
- <https://kids.nationalgeographic.com/nature/habitats>
- <https://www.bbc.co.uk/bitesize/topics/z6wwxn/articles/zdvhxbk>

Key Vocabulary

gestation	The period of time that a mammal carries her offspring, or babies, inside her body before giving birth.
fertilisation	Male and female gametes meet to form an embryo or seed
gamete	The two types of male and female cell that join together to make a new creature
embryo	An animal or a plant in its earliest stage of development.
metamorphosis	A person or thing develops and changes into something completely different.
Life cycle	The series of changes that an animal or plant passes through from the beginning of its life to its death.
reproduction	When an animal or plant produces one or more individuals similar to itself
pollination	To pollinate a plant or tree means to fertilise it with pollen. This is often done by insects
germination	The development of plant from a seed.
ovary	A female organ which produces eggs
ovule	A small egg.
stigma	The part that gets pollen from pollinators such as bees.

Scientists

Jane Goodall <https://www.britannica.com/biography/Jane-Goodall>

