The Knowledge Supporting the National Curriculum



Knowing More

Remembering More

Learning More

Living Things and Their Habitats



Year 5
Science

Metamorphosis

Amphibians are a bit different. Many are **born live** or **underwater**. They complete a **metamorphosis** as adults and can live and breathe on land.

Metamorphosis is the **change in body form** and habits during the life cycle.





Key Facts

Mammals

Mammals reproduce and give birth to **live young.** They can be either placental, monotreme or marsupial.



Birds and Reptiles

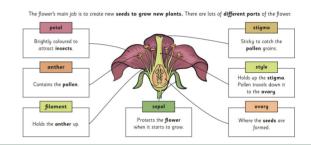
Birds and reptiles lay eggs. The shell protects the baby and when it is ready they will break out of the shell. Baby birds will be looked after by their mothers, whereas adult reptiles do not look after their babies.



Reproduction in plants

Plants contain both **male** and **female** cells. Some need to be **pollinated** in order to be fertilised. Others use **asexual** reproduction to **reproduce**.

Pollination is when **pollen** from the **anther** is transferred to the **stigma**. This can happen by **wind** or by a **pollinator** such as a bee or a butterfly. Once the pollen is transferred to the stigma, it travels down the **style** to the **ovary** where the seed grows. Seeds are then dispersed and will grow in different places. Seeds can be dispersed by **exploding plants**, **wind**, **water or**



Key People

David Attenborough and **Jane Goodall** study living things. They present the life of animals on earth and have made important documentaries so we can learn about the world around us.





Key Vocabulary

living organism: something that can move, use energy and reproduce

Naturalist: an expert in the studies of natural history (David Attenborough)

Primatologist: a person who carries out a scientific study of **primates** (Jane Goodall) **metamorphosis**: when **insects** and **amphibians** transform from **larval** stage to their **adult** form

asexual: where only one parent is needed to create offspring

reproduction: to make offspring either sexually or asexually

fertilisation: when a sperm and egg cell join together

 $\textbf{placental mammal}: has \textbf{live young} \ which \ develop \ \textbf{before birth} \ inside \ a \ female$

mammal

monotreme mammal: a mammal who lays eggs to reproduce

Test Yourself

- What are the life process of a plant?
- What are the life cycles of mammals?
- How do the life cycles of insects and amphibians compare?
- What is metamorphosis?
- What are the life cycle of birds and reptiles?
- Why is the life and work of Jane Goodall and David Attenborough so important?