



Year 5 Science Knowledge

Organiser: All Living Things & Their Habitats



Subject Specific Skills

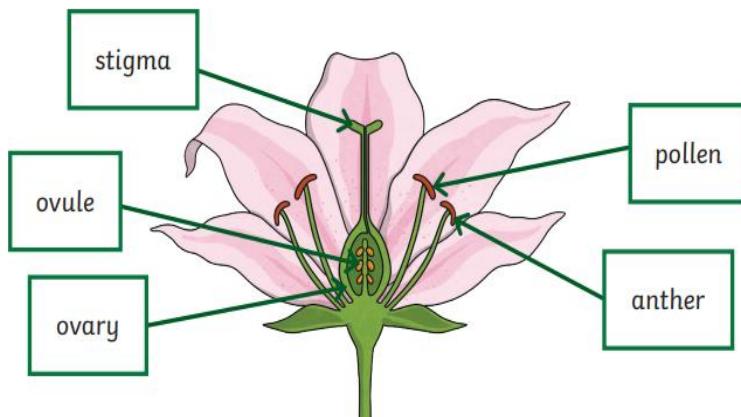
- I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- I can describe the life process of reproduction in some plants and animals

Prior Learning

- Recognise that living things can be grouped in a variety of ways
- Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- Recognise that environments can change and that this can sometimes pose dangers to living things

Key Knowledge:

Sexual reproduction in plants usually happens when the pollen from the anther of one flower reaches the stigma of another flower. It then travels to the ovary and joins with an ovule, forming a seed that can grow into a new plant.



Key Vocabulary

Egg: The female sex cell in plants and animals. Egg cells are produced by the ovaries.

Fertilisation: The joining of male and female sex cells to produce offspring.

Germination: The process by which a plant emerges from its seed and begins to grow.

Pollen: The male sex cell in plants. The anther of a flower produces pollen.

Reproduction: The process by which a species produces a new organism (offspring).

Sperm: The male sex cell. In animals, sperm is produced by the testes.

Asexual: Asexual reproduction occurs when only one parent produces offspring that are nearly identical to the parent itself.

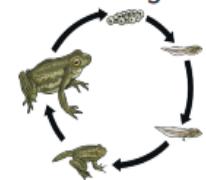
Life Cycle: The series of changes a living thing goes through from its beginning to its end is called its life cycle

Key Individual:
Jane Goodall



Key Knowledge:

The Life Cycle of a Frog



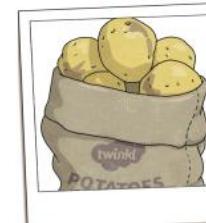
The Life Cycle of a Ladybird



The Life Cycle of a Sunflower



Asexual Reproduction in Plants



Asexual reproduction in plants happens when a parent produces new plants that are almost identical to itself, without the need for **fertilisation**. This can occur through bulbs, tubers or runners.



A potato is a tuber, strawberry plants grow runners and garlic grows from bulbs.