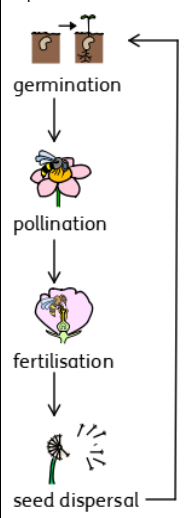


Key Knowledge

What is reproduction?

- **Reproduction** is when an animal or plant produces one or more individuals similar to itself.
- **Sexual reproduction:**
 - requires two parents with **male and female gametes (cells)**
 - **offspring** are similar to but not identical to the parent
- **Asexual reproduction:**
 - requires only one parent.
 - produces **offspring** that is identical to the parent.

How do plants reproduce?

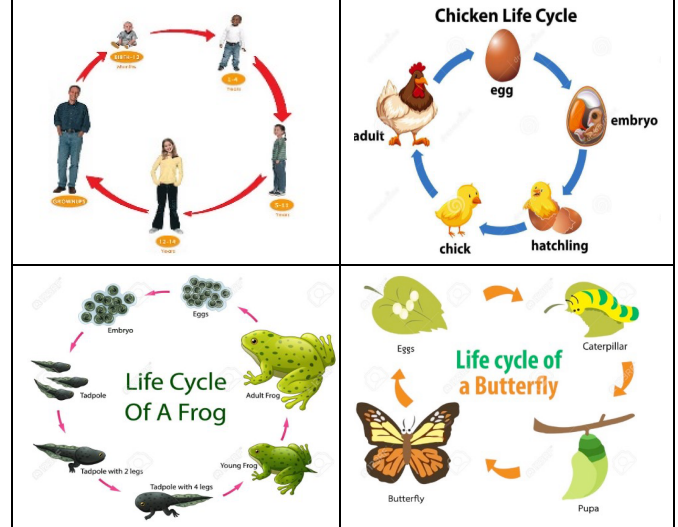


- The anther produces **pollen** which contains male **gametes**.
- The ovary contains female **gametes** called **ovules**.
- **Pollination** occurs when **pollen** from the **anther** is transferred to the **stigma** by bees and other insects.
- The **pollen** travels down the style and meets the **ovule**. Once this has happened, **seeds** are formed - this is called **fertilisation**. The ovary swells to become the fruit or seedpod.
- **Seeds** are then **dispersed** so that **germination** can begin again.
- Some **plants**, such as daffodils and potatoes, can also produce **offspring** using asexual **reproduction**.

What are examples of life cycles?

- The **life cycles** of mammals, birds, amphibians and insects have similarities and differences.
- Unlike birds, amphibians and insects, mammals do not lay eggs.
- Amphibians and insects go through the process of **metamorphosis**. This is when the structure of their bodies changes significantly as they grow (for example, from tadpole to frog or caterpillar to butterfly).

Diagram - Different Lifecycles



Key Vocabulary

anther	The part of the stamen that produces and releases the pollen
bulb	An underground stem, shaped like an onion, that grows into a flower or plant.
cell	The smallest part of an animal or plant that is able to function independently.
dispersed	Scattered or spread across a large area.
fertilisation	The joining of male and female cells.
function	A useful thing that something does.
gamete	The name for the two types of male and female cells that join together to make a new creature.
germination	Germination is the phase of plant growth when the seed begins to sprout.
lifecycle	A life cycle is a series of changes that happens to all living things.
mature	When something matures, it is fully developed.
metamorphosis	A change into something completely different.
ovary	A female organ which produces eggs.
ovule	A small egg.
pollen	A fine powder produced by flowers . It fertilises other flowers of the same species so that they produce seeds .
pollination	To pollinate a plant or tree means to fertilise it with pollen . This is often done by insects.
reproduction	When an animal or plant produces one or more individuals similar to itself.
stigma	The top of the centre part of a flower which takes in pollen.

Diagram - Parts of a Flower

