



Knowledge Organiser: Living things and their habitats

Careers connected to Forces:
Aerodynamics engineer, forensic investigator



Living things that reproduce asexually include bacteria, mould, algae and fungi.
This means they reproduce by themselves!

Knowledge Organiser Studying Living Things

Can you remember?
All living things can: move, respire, have senses, grow, reproduce, excrete and take in nutrition.

ROCKET WORDS

Learn these words and their definitions.

Key Word	Definition
Sir David Attenborough	A natural scientist who has made many award-winning nature documentaries
Jane Goodall	A scientist who committed her life to studying the lives of chimpanzees and other primates.
naturalist	An expert in natural sciences and history.
metamorphosis	When insects and animals develop into adult forms through a cycle of changes.
endangered	A species of animal with very few alive.
documentary	A film or programme that researches, studies and provides a factual report on a subject.
asexual	Something that reproduces on its own.
reproduction	To make offspring.

Animals and birth

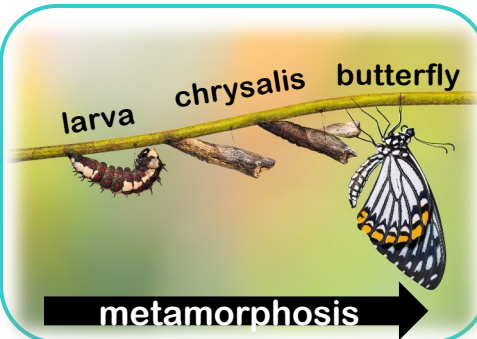


Most **mammals**, including humans, go through 'live birth.' This means that the mother gives birth to it as a live mammal, it is just a smaller version of an adult. These mammals will grow into adults over time.

Most **birds and reptiles** are born when the mother lays eggs and incubates them until they are ready to hatch. Once the egg is hatched, the baby is looked after by the mother for a period of time, and then leaves the nest to fend for itself.



Amphibians are a bit different. Many of these are born live or via eggs underwater, but complete a metamorphosis as adults and can live and breathe on land. An example of this is a frog. It starts as frogspawn, changes to a tadpole and then into a frog!



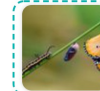
Lesson Sequence



1. Learn about sexual reproduction



2. Learn about asexual reproduction



3. Describe the life cycle of an insect and amphibian



4. Describe the life cycles of a mammal, bird and reptile



5. Know about the life and work of Sir David Attenborough



6. Know about the life and work of Dame Jane Goodall

Sir David Attenborough and Dame Jane Goodall



Both Sir David Attenborough and Dame Jane Goodall are leading **naturalists**, and study living things. They both present the life of animals on earth and have made **important documentaries** so we can learn about the world around us. Because of their impact on the world, they have both been awarded honours by the Queen!





Number these stages in the order of a life cycle of an insect:



Number	
	The eggs hatch into larvae.
	The pupa skin splits and an adult emerges with wings.
	The adult lays eggs.
	After lots of feeding and growing, the larvae turns into a pupa.

What is asexual reproduction?

What is metamorphosis?



Sir David Attenborough



Dame Jane Goodall

Why have these people been awarded honours by the queen?

Complete the table below:

	Similarity	Difference
Bird and mammal		
Reptile and fish		
Amphibian and insect		