

Fens Primary School Knowledge Organiser



Science Focus:

Living things and their habitats

Year 5

Term:

Life Cycles

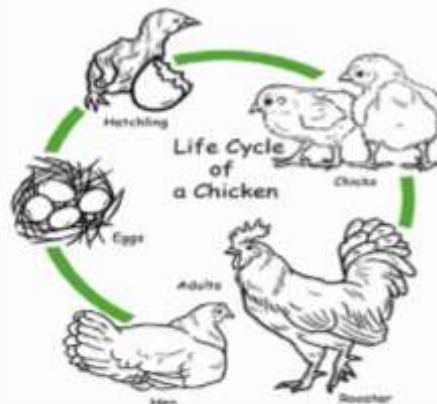
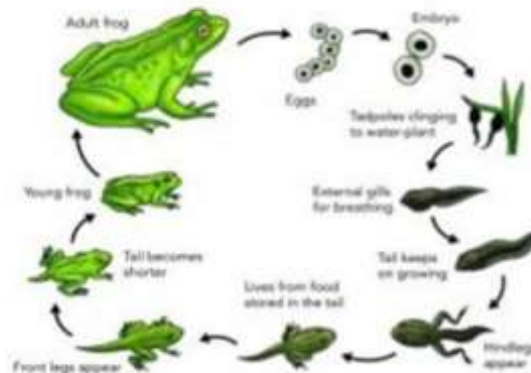
Life Cycle	A life cycle shows how things are born, how they grow and how they reproduce.
Life Cycles of a mammal, insect, bird and an amphibian	
Life cycle of a mammal	<ul style="list-style-type: none"> • Live young born • Grow from babies to adults • Reproduce • Live young born
Life cycle of an insect	<ul style="list-style-type: none"> • Egg • Growth to adult or transformation to adult • Reproduce • Egg
Life cycle of a bird	<ul style="list-style-type: none"> • Egg • Growth to adult • Reproduce • Egg
Life cycle of an amphibian	<ul style="list-style-type: none"> • Egg in water • Growth to adult • Reproduce • Eggs in water

Genetic information is passed down from one generation of organism to another

Living things produce offspring of the same kind, but offspring are not identical with each other or with parents. Plants and animals, including humans, resemble their parents in many features because genetic information is passed from one generation to the next.

Diagrams and Symbols

Detailed Life Cycle of an Amphibian (Frog)



Reproduction

What is reproduction?	Living things creating other living things. Animals have babies. Plants have seeds which turn into new plants.
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Reproduction in plants

Sexual reproduction (Two parents)	When the Pollen from one flower joins the Egg of the new flower and a seed or many seeds are formed.
Asexual reproduction (One parent)	This is when a small part of a plant breaks off and it starts to grow until it is the same size as the plant it came from and this is repeated. (Flowers are not needed)

Examples of plant reproduction

Sexual	• Apple Tree
Asexual	• The Spider Plant

Reproduction in animals

Usually sexual	Reproduction in animals is most commonly sexual involving two parents.
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Examples of animal reproduction

Sexual	• Lion
Asexual	• Starfish

Scientists we need to know about

5 facts about David Attenborough	<ul style="list-style-type: none"> • Born on 8th May 1926 • British • Famous wildlife film maker • Knighted in 1985 • He is the only person to have won BAFTAs (TV Award) for programmes in each of Black and white, colour, HD, and 3D.
5 facts about Jane Goodall	<ul style="list-style-type: none"> • Born on 3rd April 1934 • British • Considered to be the world's foremost expert on chimpanzees • Has studied chimpanzees for 45 years in Gombe Stream National Park which is located in Tanzania • Goodall is the author of a number of books that

Working as a Scientist

- Compare the life cycles with the most and fewest parts.
- Try to grow new plants from different parts of a parent plant (e.g. seeds, stem, root cuttings...)
- Observe Living Eggs during Science Week
- Find the best episode of a David Attenborough pro-

	What? (Key Vocabulary)
Spelling	Definition/Sentence
Transformation	Changing in very clear ways.
	To be recognised as a very important per-