

	Year 5 – Life Cycles (Animals Including Humans and Living Things)
Links made with	PHSE – Puberty
other subjects	
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The BIG Question	Do all life cycles look the same?
The BIG Outcome	Piece of writing explaining the similarities and differences between human life cycles,
	plants, and animals which lay eggs
Science objectives	- describe the differences in the life cycles of a mammal, an amphibian, an insect and
(link to NC)	a bird
	- describe the life process of reproduction in some plants and animals
	- describe the changes as humans develop to old age
Prior knowledge	Children already know:
What prior knowledge is needed for children to be	EYFS – Understanding the world - Children know about similarities and differences in
successful in this unit?	relation to places, objects, materials and living things. They talk about the features of
	their own immediate environment and how environments might vary from one
	another. They make observations of animals and plants and explain why some things
	occur and talk about changes.
	Yr 1 – Animals Including Humans (Types and Parts of Animals)
	Yr 2 - Animals Including Humans (Feeding & Exercise and Living Things)
	Yr 3 - Animals Including Humans (Movement and Feeding)
Future learning	Yr 4 - Animals Including Humans (Human Nutrition)
Future learning Consider the conceptual	This unit gives prior knowledge to:
knowledge within a	Yr 6 - Animals Including Humans (Our Bodies and Evolution and Inheritance)
subject that pupils need	
for future learning not	
just the recall of facts but the importance of	
concepts	
Science strands	Related Enquiry Questions
	Classifying
	- Classify animals according to their life cycle
	Observing over time
	-Grow from cuttings and observe whether they grow roots/stem/ leaf/flower.
	-Grow from, and harvest, bulbs through the year. (Can be done in conjunction with
	Year 2.)
	-Observe strawberry/spider plants through the year.
	Pattern Seeking
	Children generate questions such as:
	-Do larger mammals have longer gestation periods?
	-Do larger animals live longer?
	-Do smaller animals lay more eggs?
	Comparative testing
	Not relevant
	Researching
	- Generate questions to research the life cycle of a chosen animal: mammal,
	amphibian, insect, bird e.g. dragon fly, cuckoo, salmon, worm, owl. (Children
	present what they've learned in different ways: create a model, write a song, write
	a story, create a PPT, etc.)
	Deservable how sevels a severally as we alway always
	- Research how gardeners asexually reproduce plants.
	- Research now gardeners asexually reproduce plants. -Develop questions to ask an expert e.g. a health visitor, doctor or nurse. (Questions will need to be filtered by the teacher.)



**Science Scheme of Work** 

	Science Scheme of Work	Pri
Vocabulary/	Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual	,
Glossary	plantlets, runners, bulbs, cuttings	
	Puberty – the vocabulary to describe sexual characteristics	
Knowledge	The knowledge that children will learn and remember:	
(see italics for knowledge		
to remember)	1. As part of their life cycle, plants and animals reproduce.	
	2. Most animals reproduce sexually. This involves two parents where the sperm	
	from the male fertilises the female egg.	
	3. Animals, including humans, have offspring which grow into adults. In humans	
	and some animals, these offspring will be born live, such as babies or kittens,	
	and then grow into adults.	
	4. In other animals, such as chickens or snakes, there may be eggs laid that hatch	
	to young which then grow to adults.	
	5. Some young undergo a further change before becoming adults e.g. caterpillars	
	to butterflies. This is called a metamorphosis.	
	6. Plants reproduce both sexually and asexually. Bulbs, tubers, runners and	
	plantlets are examples of asexual plant reproduction which involves only one	
	parent. Gardeners may force plants to reproduce asexually by taking cuttings.	
	7. Sexual reproduction occurs through pollination, usually involving wind or	
	insects.	
	8. When babies are young, they grow rapidly. They are very dependent on their	
	parents. As they develop, they learn many skills.	
	9. At puberty, a child's body changes and develops primary and secondary sexual	
	characteristics. This enables the adult to reproduce.	
SEND expectations	1. As part of their life cycle, plants and animals reproduce.	
	2. Most animals reproduce sexually. This involves two parents where the sperm from	
	the male fertilises the female egg.	
	3. Some Animals, including humans, have offspring which grow into adults.	
	4. In other animals there may be eggs laid that hatch to young which then grow to	
	adults	
	5. Plants reproduce both sexually and asexually.	
	6. When babies are young, they grow rapidly. They are very dependent on their	
	parents.	
	7. At puberty, a child's body changes and develops primary and secondary sexual	
	characteristics.	
Common	Some children may think:	
Misconceptions	- a baby grows in a mother's tummy	
	- a baby is "made".	