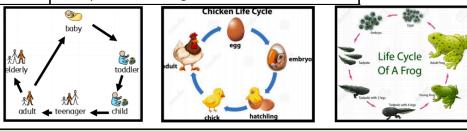
Caroline Haslett Primary School - Science Topic: Living things and their habitat Year 5

What should I already know?		What will I know by the end of the unit?	
amphibian	an be grouped into vertebrates (and then further into fish, reptiles, is, birds and mammals) and invertebrates	What is reproduction?	 Reproduction is when an animal or plant produces one or more individuals similar to itself:
 Some examples of life cycles (including those of plants and humans) The pressure of dispared fortilization and combination 			 Sexual reproduction:
The processes of dispersal, fertilisation and germination			 requires two parents with male and
Reproduction is one of the seven life processes.			female gametes (cells)
• Parts of a plant , their features and what their functions are.			 will produce offspring that is similar to but not identical to the parent
The work of David Attenborough.			Asexual reproduction:
• The word metamorphic means 'a change of form' (in the context of rocks)		_	• will produce offspring that is
Vocabulary			identical to the parent
anther	the part of a stamen that produces and releases the pollen		 requires only one parent
bulb	a root shaped like an onion that grows into a flower or plant	How do	
cell	the smallest part of an animal or plant that is able to function independently	plants repro- duce?	Stigma Anther -
dispersed	scattered, separated, or spread through a large area	→ 1	-Style
dissect	to carefully cut something up in order to examine it scientifically	germination	· Petal
embryo	an unborn animal or human being in the very early stages of development	*	Covary
fertilisation	male and female gametes meet to form an embryo or seed	pollination	Ovule
flower	the part of a plant which is often brightly coloured and grows at the end of a stem	Ś	Male gametes can be found in the pollen.
flowering	trees or plants which produce flowers	fertilisation	• Female gametes can be found in the ovary (they are called ovules).
function	a useful thing that something does	↓	Pollination occurs when pollen from the anther
gamete	the name for the two types of male and female cell that join together to make a new creature	seed dispersal —	is transferred to the stigma by bees and other insects.
germination	if a seed germinates or if it is germinated, it starts to grow		• The pollen then travels down and meets the
life cycle	the series of changes that an animal or plant passes through from the beginning of its life until its death		ovule. When this happens, seeds are formed - this is called fertilisation.
mature	When something matures, it is fully developed		• Seeds are then dispersed so that germination
metamorphosis	a person or thing develops and changes into something completely different		 can begin again. Some plants, such as daffodils and potatoes, can
ovary	a female organ which produces eggs		also produce offspring using asexual reproduction
ovule	a small egg	What are	• The life cycles of mammals, birds, amphibians
petal	thin coloured or white parts which form part of the flower	examples of	and insects have similarities and differences.
plant	a living thing that grows in the earth and has a stem, leaves , and roots	life cycles?	• One difference is that amphibians and insects go through the process of metamorphosis. This is
pollen	a fine powder produced by flowers . It fertilises other flowers of the same species so that they produce seeds		when the structure of their bodies changes significantly as they grow (for example, from
pollination	To pollinate a plant or tree means to fertilise it with pollen . This is often done by insects		tadpole to frog or caterpillar to butterfly).
reproduction	when an animal or plant produces one or more individuals similar to itself		
seed	the small, hard part from which a new plant grows		
stigma	the top of the centre part of a flower which takes in pollen		
structure	the way in which something is built or made		





Investigate!

Dissect a flower and identify the different parts of it. Label the different parts and explain their functions.

Grow new plants from different parts of the parent plant, for example, seeds, stem and root cuttings, tubers, bulbs.

Compare the life cycles of mammals, amphibians, insects and birds. What is similar about their life cycles? What is different?

- Observe life cycle changes in a variety of living things, for example, plants in the vegetable garden or flower border, and animals in the local environment.
- Compare the life cycles of plants and animals in the local environment with other plants and animals (in the rainforest, in the oceans, in desert areas and in prehistoric times), asking pertinent questions and suggesting reasons for similarities and differences.
- Observe changes in an animal over a period of time (for example, by hatching and rearing chicks), comparing how different animals reproduce and grow.
- Compare what you already know about David Attenborough, and compare his work to that of Jane Goodall's.