What should I already know?

- Animals can be grouped into vertebrates (and then further into fish, reptiles, amphibians, birds and mammals) and invertebrates
- Some examples of life cycles (including those of plants and humans)
- The processes of dispersal, fertilisation and germination
- Reproduction is one of the seven life processes.
- Parts of a plant, their features and what their functions are.
- The work of David Attenborough.
- The word metamorphic means 'a change of form' (in the context of rocks)

Living Things & Habitats		
What will I know by the end of this		
<u>unit?</u>		
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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) will produce offspring that is similar to but not identical to the parent Asexual reproduction: will produce offspring that is similar to but not identical to the parent Asexual reproduction: will produce offspring that is 	
	 will produce offspring that is identical to the parent 	
	 requires only one parent 	
How do plants repro- duce?	Bigma Arthur Bigma Bigma Doary Doary Bigma	
Sectilization	 Male gametes can be found in the pollen. Female gametes can be found in the ovary (they are called ovules). Pollination occurs when pollen from the anther is transferred to the stigma by bees and other insects. The pollen then travels down and meets the ovule. When this happens, seeds are formed - this is called fertilisation. 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. One difference is that 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). 	

Vocabulary Anther - the part of a stamen that produces and releases the pollen bulb a root 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, separated, or spread through a large area dissect to carefully cut something up in order to examine it scientifically embrvo an unborn animal or human being in the very early stages of development fertilisation male and female gametes meet to form an embryo or seed flower the part of a plant which is often brightly coloured and grows at the end of a stem flowering trees or plants which produce flowers function a useful thing that something does gamete the name for the two types of male and female cell that join together to make a new creature germination if a seed germinates or if it is germinated, it starts to grow life cycle the series of changes that an animal or plant passes through from the beginning of its life until its death mature When something matures, it is fully developed metamorphosis a person or thing develops and changes into something completely different ovary a female organ which produces eggs ovule a small egg petal thin coloured or white parts which form part of the flower plant a living thing that grows in the earth and has a stem, leaves, and roots 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 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

Scientific enquiry	<u>Diagrams</u>	
 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 	baby baby elderly adult teenager child	
 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. 	Life Cycle Of A Frog Life result blace we have blace we have	