Dog Kennel Hill Primary School - Science

Topic: Living things and their habitats

Year: 5

Strand: Biology

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**)
- 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.

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	
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	
Embryo	an unborn animal or human being in the very early stages of development	
Fertilisation	male and female gametes meet to form an embryo or	
Flower	the part of a plant which is often brightly coloured	
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	
Germina- tion	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	
Metamor- phosis	a person or thing develops and changes into some- thing completely different	
Ovary	a female organ which produces eggs	
Ovule	a small egg	
Petal	thin coloured or white parts which form part of the	
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	
Reproduc- tion	when an animal or plant produces one or more indi- viduals 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	
Structure	the way in which something is built or made	

What will I know by the end of the unit?		
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 identical to the parent 	
	 requires only one parent 	
How do plants reproduce?	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 an- ther is transferred to the stigma by bees and other insects. 	
seed dispersal —	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 exam- ples of life cy- cles?	The life cycles of mammals, birds, amphibi- ans and insects have similarities and differ- ences. One difference is that amphibians and in- sects go through the process of metamor- phosis. This is when the structure of their bodies changes significantly as they grow (for example, from tadpole to frog or cat-	



