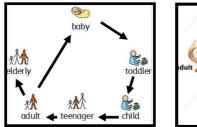
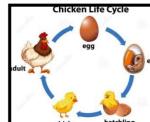
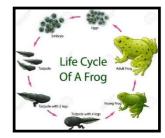
Mexborough St John the Baptist C of E Primary School - Science Year: 5 **Topic: Living things and their habitats** Strand: Biology What will I know by the end of the unit? What should I already know? What is • Animals can be grouped into vertebrates (and then further into fish, • Reproduction is when an animal or plant reproduction? reptiles, amphibians, birds and mammals) and invertebrates produces one or more individuals similar to itself: Some examples of life cycles (including those of plants) • 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: Vocabulary • will produce offspring that is identical anthei the part of a stamen that produces and releases the pollen to the parent bulb a root shaped like an onion that grows into a **flower** or **plant** • requires only one parent the smallest part of an animal or plant that is able to cell function independently How do plants scattered, separated, or spread through a large area dispersed reproduce? Stigm to carefully cut something up in order to examine it dissect scientifically an unborn animal or human being in the very early stages of embrvo G ç development germination fertilisation male and female gametes meet to form an embryo or seed the part of a plant which is often brightly coloured and flower grows at the end of a stem flowering trees or plants which produce flowers pollination a useful thing that something does function the name for the two types of male and female cell gamete Male gametes can be found in the pollen. that join together to make a new creature C • Female gametes can be found in the ovary (they germination if a seed germinates or if it is germinated, it starts to grow are called **ovules**). fertilisation the series of changes that an animal or **plant** passes through life cycle • Pollination occurs when pollen from the anther is from the beginning of its life until its death transferred to the **stigma** by bees and other insects. mature When something matures, it is fully developed Ř • The **pollen** then travels down and meets the **ovule**. metamora person or thing develops and changes into something seed dispersal When this happens, seeds are formed - this is completely different phosis called fertilisation. ovarv a female organ which produces eggs ovule a small egg • Seeds are then dispersed so that germination can petal thin coloured or white parts which form part of the flower begin again. • Some **plants**, such as daffodils and potatoes, can a living thing that grows in the earth and has a stem, leaves, plant and roots also produce offspring using asexual reproduction a fine powder produced by flowers. It fertilises other flowers pollen of the same species so that they produce seeds What are • The life cycles of mammals, birds, amphibians examples of To pollinate a plant or tree means to fertilise it with pollen. and insects have similarities and differences. pollination life cycles? This is often done by insects • One difference is that amphibians and insects go when an animal or plant produces one or more individuals through the process of **metamorphosis.** This is reproduction similar to itself when the structure of their bodies changes the small, hard part from which a new plant grows seed significantly as they grow (for example, from stigma the top of the centre part of a **flower** which takes in **pollen** tadpole to frog or caterpillar to butterfly). the way in which something is built or made structure









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.

Mexborough St John the Baptist C of E Primary School - Science							
Topic: Living things and their habitats		Year: 5		Strand: Biology			
Question 1: Asexual reproduction occurs when(tick two) there is only one parent	Start of unit:	End of unit:	is one exa	6: Pollen transfer from insect ample of how pollination Name another.	(art of nit:	End of unit:
there are two parents			nappens.			iit.	
the offspring is identical to the							
parent							
the offspring is similar but not identical to the parent							
Question 2: Place these events in the life cycle of a plant (1-4). One has been done for you.	Start of unit:	End of unit:		7: You conduct an experime		tart	End
fertilisation				gate if some seeds germinat nan others. Name one thing	e	of	of
pollination			you	ian others. Name one thing	ι	init:	unit:
germination			will do to	make the test fair.			
seed dispersal	1						
	-		J				
Question 3: The life cycles of amphibians and insects are similar because(tick two)	Start of unit:	End of unit:]				
they both give birth to live young			1				
the offspring hatch out of eggs			Question 8: You conduct an experiment St			tart	End
they usually both undergo metamorphosis			quicker th	o investigate if some seeds germinate uicker than others. Name one variable ou will change.			of unit:
they can both fly							
Question 4: Seed dispersal is part of a life process. Which life process is it a part of?	Start of unit:	End of unit:					
respiration							
nutrition			Quanting		Chart	c I	E a d a f
reproduction				9: The young of which of ups hatch out of eggs?	Start c unit:	т	End of unit:
excretion			mammals				
			amphibia	ns			
Question 5: Place these events of	Cheven 6	En el C	-			+	
reproduction of a flower in order from	Start of unit:	End of unit:	birds				
1-4. One has been done for you.		unit.	insects				
bees and other insects fly to another flower and transfer the pollen to the stigma				10: Which of these are of metamorphosis?	Start c unit:	f	End of unit:
			teenager				
the pollen travels down the ovule				^r to butterfly		╈	
bees and other insects collect pollen from the anther	1		tadpole to	o frog			
fertilisation happens with the pollen meets the ovule			chick to h	en			