BICKERSTAN	Year 5	<b>Topic:</b> Living things and their habitats
*	National Curriculum links:	
	• Describe the differences in the life cycles of a mammal, an amphibian, an insect and	d a bird.
C.E.SCHOOL	<ul> <li>Describe the life process of reproduction in some plants and animals.</li> </ul>	

	Prior learning		Future learning
•	Notice that animals, including humans, have offspring which grow intoadults. (Y2 - Animals, including humans) Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. (Y3 - Plants)	•	Reproduction in humans (as an example of a mammal), including the structure and function of the male and female reproductive systems, menstrual cycle (without details of hormones), gametes, fertilisation, gestation and birth, to include the effect of maternal lifestyle on the foetusthrough the placenta. (KS3)
		•	Reproduction in plants, including flower structure, wind and insect pollination, fertilisation, seed and fruit formation and dispersal, includingquantitative investigation of some dispersal mechanisms. (KS3)

WHAT PUPILS NEED TO KNOW OR DO TO BE SECURE					
Show understanding of a concept using scientific vocabulary correctly					
Key learning	Possible evidence				
As part of their life cycle, plants and animals reproduce. Most animals reproduce sexually. This involves two parents where the sperm from the male fertilises the female egg. Animals, including humans, have offspring which grow into adults. In humans and some animals, these offspring will beborn live, such as babies or kittens, and then grow into adults. In other animals, such as chickens orsnakes, there nay be eggs laid that hatch to young which then grow to adults. Some young undergoa further change before becoming adults e.g. caterpillars to butterflies. This is called a metamorphosis.	<ul> <li>Can draw the life cycle of a range of animals identifying similarities and differences between thelife cycles</li> <li>Can explain the difference between sexual and asexual reproduction and give examples of howplants reproduce in both ways</li> </ul>				
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 reproduceasexually by taking cuttings. Sexual reproduction occurs through pollination, usually involving wind orinsects.					
Key vocabulary					
ife cycle, reproduce, sexual, fertilises, asexual, plantlets, runners, tubers, bulbs, cuttings					
S					

enquiries Possible evidence Can present their understanding of the life cycle of a range of animals in different ways e.g. drama, pictorially,
Possible evidence     Can present their understanding of the life cycle of a range
Possible evidence     Can present their understanding of the life cycle of a range
Possible evidence     Can present their understanding of the life cycle of a range
Possible evidence     Can present their understanding of the life cycle of a range
Possible evidence     Can present their understanding of the life cycle of a range
Possible evidence     Can present their understanding of the life cycle of a range
Can present their understanding of the life cycle of a range
<ul> <li>chronological reports, creating a game</li> <li>Can identify patterns in life cycles</li> <li>Can compare two or more animal life cycles theyhave studied</li> <li>Can explain how a range of plants reproduceasexually</li> </ul>
s?
-

<u>Lesson 3</u> LO: to describe the process of sexual reproduction in animals	Key Assessment Questions Can children define some of the ways in which sexual reproduction in animals occur? Can children compare species that reproduce in different ways and consider reasons why? Can children record data using scientific graphs/diagrams?
Lesson 4 LO: to observe and compare the life cycles of animals in our local environment with other animals around the world TAPS science lesson life cycle acting https://pstt.org.uk/application/files/5814/ 7021/6047/Y5eg Living Life cycle acting. pdf	Key Assessment Questions Can children establish casual links between the life cycle of animals and their environment? Can children compare the life cycles of animals living in different environments?
<u>Lesson 5</u> LO: to compare how different animals reproduce and grow	Key Assessment Questions Can children use scientific vocabulary to explain some ways in which different animals reproduce? Can children give reasons for the difference between life cycles of different animals? Can children compare the life cycles and methods of reproduction of different animals?
<u>Lesson 6</u> LO: to learn about naturalists	Key Assessment Questions Can children talk about what a naturalist does? Can children explain why the work of a naturalist is important?

If completing topic over a term, objectives can be covered over more than one lesson ensuring scientific enquiry skills (working scientifically) are being developed

31