Year 5 – Living things and their habitats (biology, chemistry, physics)	
NC objectives	
• describe the differences in the life cycles of a r	nammal, an amphibian, an insect and a bird
 describe the life process of reproduction in some plants and animals. 	
Prior learning	Future Learning
 Notice that animals, including humans, have offspring which grow into adults. (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 foetus through the placenta. (KS3) Reproduction in plants, including flower structure, wind and insect pollination, fertilisation, seed and fruit formation and dispersal, including quantitative investigation of some dispersal mechanisms. (KS3)
Key vocabulary	Common misconceptions
Life cycle, reproduce, sexual, sperm, fertilises, egg,	Some children may think:
live young, metamorphosis, asexual, plantlets,	• all plants start out as seeds
runners, bulbs, cuttings	• all plants have flowers
	• plants that grow from bulbs do not have seeds
	• only birds lay eggs.

Areas of enquiry	Hook suggestions
 Observation over time - How does a bean change as it germinates? Comparative and fair testing - Which seed shape takes the longest time to fall? Identifying and classifying - How are dinosaurs and salamanders different/the same? Pattern seeking - Is there a relationship between a mammal's size and its gestation period? Researching using secondary sources - What are the differences between the life cycle of an insect and a mammal? 	<u>Books</u> Life by Cynthia Rylant <u>Scenarios</u> Scenario – Jason says the life cycles of a tiger and a bird are the same. Is he correct? Do you agree? (Research)