Y5 – Living things and their habitats

 Key Questions What is a life cycle? How do life cycles differ for different animals? What are the life processes of reproduction in an animal? What are the life processes of reproduction in a plant? 	 Working Scientifically planning different types of scientific enquiries to answer que taking measurements, using a range of scientific equipment, recording data and results of increasing complexity using scie using test results to make predictions to set up further comp reporting and presenting findings from enquiries, including c displays and other presentations 	estions, including recognising and controlling variables where necessary , with increasing accuracy and precision, taking repeat readings when ap entific diagrams and labels, classification keys, tables, scatter graphs, ba	propriate	- Also covered in:
Knowledge A mammal is a warm-blooded creature that gives birth to live babie	 identifying scientific evidence that has been used to support By the end of this unit children will be able to: Describe the life cycle of different mammals, amphibians, ins Explain how reproduction occurs in an animal and a plant. s. A mammal has fur or hair. The largest mammal in the world is further that the second se	barative and fair tests conclusions, causal relationships and explanations of and degree of trust t or refute ideas or arguments. sects and birds. the blue whale and the smallest is the bumblebee bat.	r and line graphs in results, in oral and written forms such as	Y3- Animals including humans. Y4- Living things and their habitats Y6- Living things and their habitats
An amphibian is a cold-blooded creature. Amphibians can breathe in An insect is a creature whose body is split into three sections called ants, bees and butterflies. A bird is a vertebrate. It has a beak, feathers and wings, although no All animals, including humans, are born, they get older and bigger an Life cycles in mammals Embryo growing inside the mother, where it is completely reliant up Main period of growth and developing independence from the pare Independent adult usually seeks company from the opposite sex and Life cycle of an amphibian The female lays a mass of eggs which are fertilized by the male. After 2-25 days the tadpole hatches from the egg. It swims and eats plants. It breathes through gills. The tadpole grows fins and a stronger tail. Then, it develops lungs an The tadpole grows front legs and its tail shortens. It uses nutrients in The tail disappears and it starts to eat insects instead of plants. It ta Insects come under two categories. 'Metamorphosis' means 'to cha Insects like butterflies have four stages in their life-cycle. They lay a the butterfly develops inside the pupa and the adult butterfly emergincomplete metamorphosis- The life cycle of these insects has three To reproduce, animals need a male and female. Together they can of they are developed enough to be born.	n and out of water. Frogs and toads are amphibians. the head, the thorax and the abdomen. Insects have an exoskeled it all birds can fly nd some will go on to have children. In the end, all animals die. W bon the mother. nts. d mates. Adult female nurses their young nd hind legs. n its tail as food. It jumps out of the water on to land kes 2-4 years to become an adult, when it can lay eggs. nge n egg on a leaf and the egg hatches into a larva (or caterpillar) wh ges. It then finds a mate and the cycle will start again. This is calle e stages: egg, nymph and adult. Insects in this category include gra- create offspring, or babies. Some animals, such as chickens, fish a	eton. There are around one million species of insects, including We call this a life cycle. Note that the source of the second s	Stages of the human gestation per 1 day 5-6 weeks 9-10 weeks 9-10 weeks 38-42 weeks 19-20 weeks 38-42 weeks 19-20 weeks 38-42 weeks 19-20 weeks 10 week	riod Il combine. It vide and grow. the size of a cognisable to look a bit alled a fetus. us looks a lot fround 15cm and ready to rysalis). The body of
Topic Specific Vocabulary Life cycle, mammal, amphibian, insect, bird, Complete Metamorphosis, incomplete metamorphosis, reproduction, seed dispersal, germination, pollination, fertilisation, stamen, stigma, carpel, ovary, fertilised egg, embryo, fetus,, sperm, egg, gestation period		 NC Subject content describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals. 		
Year 3 Benefit, impact, issues, occur, process, sequence, source, variables	Subject Specific This vocabulary should be explicitly taught in context. Oth Year 4 Appropriate, consequences, identified, procedure, range, relevant significant specific theory transfer	c/Academic Vocabulary her tier 2 words should also be explored as they are encountered. Year 5 Factors, affect, analyse, contribute, demonstrate, outcome, react, volume	Year 6 Component, exclude, function, imply, initia	al, justify, sufficient.