

Unit Overview	To recognise that living things can be grouped in a variety of ways. To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. To recognise that environments can change and that this can sometimes pose dangers to living things.	
Prior Learning/ Links	<ul> <li>EY – Children learn about different animals and look at life cycles.</li> <li>KS1 - Classifying animals into invertebrates and vertebrates. To know the features of fish, amphibians, birds, reptiles and mammals and name common animals from each group including pets. To name common plants and trees – including deciduous and evergreen. Sort animals into carnivores, herbivores and omnivores. Identify habitats to which different plants and animals are suited and suggest why.</li> <li>KS2 -Children look at animals and what they need to survive.</li> </ul>	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions: How can you sort plants	<ul> <li>To know animals can be put into 2 groups:</li> <li>Invertebrates and vertebrates.</li> <li>To know vertebrates have a backbone and they can be grouped into:</li> </ul>	Questioning and Planning To ask relevant questions and set up simple scientific enquiries.
and animals?	<ul> <li>Fish – breathes with gills, lays eggs in water, has scales</li> <li>Amphibians –born with gills then has lungs, damp skin</li> <li>Birds – breathes with lungs, lays eggs with shell, feathers</li> </ul>	Observation and Measurement To make careful observations when conducting a test
What is a habitat? How can a habitat be	<ul> <li>Reptiles – breathes with lungs, lays eggs on land, scaly skin.</li> <li>Mammals – breathes with lungs, has hair or fur, babies are born live,</li> </ul>	Recording and Presenting
changed over time?	babies feed on mothers milk.	Present data in a variety of ways
What positive or negative effects can humans have on a habitat?	<ul> <li>To know invertebrates do not have a backbone and can be classified into 3 main groups:</li> <li>-Insects – 3 body sections, 6 legs</li> <li>-Arachnids – 2 body sections, 8 legs</li> <li>Molluscs –slimy foot, often have a shell.</li> </ul>	Analysing and Evaluating Use results to draw conclusions and to evaluate the effectiveness of the enquiry. Use evidence to support findings.
	• To know plants can be classified into flowering and non-flowering plants. Flowering plants contain: Cereals, garden plants, deciduous trees. Non- flowering plants containing : Algae, coniferous trees	
	<ul> <li>To recognise how habitats can change over time including the weather effects habitats. (bird migration/hibernation)</li> <li>To be able to state some of the positive impact humans can have on habitats</li> </ul>	
	within the local area and other areas e.g. nature reserves, biomes, garden ponds etc.	
	<ul> <li>To know the negative impact humans have on the environment locally e.g. deforestation, construction, droughts, flood etc.</li> </ul>	



## Science Unit Planner Year: 4 Title: Animals and their habitats

Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive:	Visit Copperas fields – there is a pond to study the positive human impact on the	Jellyfish are not a fish - Jellyfish do not have a backbone and are classified as
Petal	environment.	invertebrates ( cnidarians taken from the Greek word meaning nettle as they sting)
Seed	Martin Mere – bird migration	
Carpel		
Stamen		
Pollen		
Dispersal		
Nectar		
Fertilisation		
Biomes		
Classification key		
Criteria		
Habitat		
Invertebrate		
Vertebrate		
Organism		
Reptile		
Mammal		
Amphibian		
Migration		
Hibernation		
Disciplinary:		
Plan		
Observe		
Predict		
Equipment		
Safety		
Evidence		
Record		
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