

Science Unit Planner Year: 6 Title: Evolution and Inheritance

Unit Overview	Children use all their knowledge of living things to consolidate learning. They classify animals and plants based on their features. They learn to use a simple key to identify unknown living things.	
Prior Learning/ Links	EY – children have grown plants and learned about living things. KS1 – children learn the names of common trees and plants, they learn about parts of flowers and life cycles. Children learn about how to look after plants and animals. KS2 – children learn to group and classify different living things, they learn about life cycles and reproduction of plants and animlas.	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions:	 Children know living things can be classified using criteria such as animals/plant. Animals can be classified into Vertebrates (have a backbone) and invertebrates (do not have a back bone). They can name some from the list 	Questioning and Planning Plan an enquiry and explore the evidence for the questions asked.
What animal groups are	learnt:	
there?	Vertebrates have a backbone: Fish – cold blooded, has gills, breathes under water, lays eggs in water.	Observation and Measurement
How would you identify a bird you had never seen before?	 Names of fish we keep as pets: guppy, tetra, goldfish Names of wild fish/ fish we eat: cod, haddock, pike, tuna Amphibians – cold blooded, has gills but then develops lungs, damp skin, lays eggs in water. Names of some amphibians: frog, toad, salamander, newt Reptiles – breathes with lungs, lays eggs on land, dry scaly skin, cold – blooded. Names of some reptiles: Turtles, crocodiles, snake, lizard Birds - have feathers, dry skin, lay eggs on land, breathes with lungs, warm blooded. Names of some birds: parrot, owl, swallow, sparrow, thrush, finch. Mammals – have live young, usually covered in hair or fur, feed young mothers milk, warm – blooded, breathe using lungs. Names of some mammals: elephant, human, dog, whale, giraffe, lion, ant – eater Invertebrates do not have a backbone: Insects – 3 body sections and 6 legs Arachnids - 2 body sections and 8 legs Molluscs – have a 'foot' which is limy, and sometimes a shell. 	<u>Recording and Presenting</u> Investigate different sources of evidence and record information. Present information to others using diagrams/ images. <u>Analysing and Evaluating</u>
	 Children know we can categorise plants into what type they are and whether they are flowering or non – flowering which is the way they reproduce. Children can explain how to use a simple key to identify a living thing. Children know what a micro – organism is and give examples of where these are used: yoghurt, yeast, medicines. 	



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	Children can give examples of why and how humans can look after animals and plants.	
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive: Living things Plant Animal Vertebrate Invertebrate Reproduce Micro - organism	Year 6: All Living Things STEM Living things - Year 5-6 / P6-7 Science Collection - Home Learning with BBC Bitesize - BBC Bitesize Living things and their habitats: Year 6 (Classification) Lesson Plans for Teachers Young People's Trust For the Environment (ypte.org.uk)	That living things can control when and how they change over time: e.g children think the polar bear has decided to have a white coat or that there is a choice. That if an animal decides to adapt, it can, and then it will pass this on to it's offspring.
Disciplinary: Classify Key Group Explain	Micro-organisms - Disease, defence and treatment – WJEC - GCSE Biology (Single Science) Revision - WJEC - BBC Bitesize Year 6 Living Things - Classifying Microorganisms Teaching Resources (tes.com)	