Year 6

<u>Science – Living things and their habitats (Biology)</u> <u>Essential Question: What is meant by The Kingdom of Life ?</u>



What I should already know: The children have touched upon classification in their oceans topic and know that classification means sorting into groups according to different features. They know about different habitats and that some fungi live in oceans. They know that a vertebrate is an animal with a backbone and a mammal is an animal that gives birth to live young.

<u>Enquiry Questions:</u>	<u>Key Vocabulary</u>	Science Skills
Chigan y Questions.	Amphibian - A cold-blooded vertebrate, like frogs and toads, the larvae being typically aquatic, breathing by gills.	Pupils will:
	<u>Carbon dioxide -</u> A greenhouse gas found in the atmosphere.	,
	<u>Cell-</u> The smallest structural and functional unit of an organism.	Describe how living things are classified into broad groups according to common observable characteristics
What is meant by the	C <u>lassify -</u> Arrange into classes or categories according to shared qualities or characteristics.	and based on similarities and differences, including
	<u>Classification</u> - The action or process of classifying something.	micro-organisms, plants and animals.
kingdoms of life?	<u>Ecosystem - A community of interacting organisms and their environment.</u>	Give reasons for classifying plants and animals based
kinguonis of infe.	<u>Fungi -</u> Asimple organism, or living thing, that is neither a plant nor an animal eg yeast/mould/mushrooms	on specific characteristics.
	Fungi are their own kingdom as	find out about the significance of the work of scientists such as Carl Linnaeus, a pioneer of classification.
	they gain energy from dead	such as Carl Linnaeus, a pioneer of classification. Classify animals into commonly found invertebrates
What did Carl	plants and animals, not the sun.	(such as insects, spiders, snails, worms) and
	plants and animals, not the sun.	vertebrates (fish, amphibians, reptiles, birds and
Linnaeus contribute to	Genus - A class, kind, or group marked by common characteristics or by one common characteristic	mammals).
	Habitat - The place a plant or animal lives	Use the local environment throughout the year to
Science?	<u>Hyphae</u> - The name for fungal cells	explore and answer questions about animals in their habitat.
	<u>Invertebrates -</u> Animals without a backbone or bony skeleton <u>.</u>	Scientific Enguiry
	Kingdom - A category grouping together all forms of life, having certain characteristics in common.	Recording data and results of increasing
-	The six living kingdoms are:	complexity using scientific diagrams and labels,
Is there only one type	animals, plants, fungi, bacteria,	classification keys , tables, scatter graphs, and
	protists and archaea.	bar and line graphs.
of vertebrate?		Planning different types of enquiries to answer
	<u>Mammal -</u> Aclass of vertebrates including humans, that produce milk to feed their babies.	questions including recognising and controlling
	<u>Microorganism</u> - A tiny, microscopic organism such as bacteria, virus or fungus.	variables where necessary
	multicellular - An organism which consists of more than one cell	Identifying scientific evidence that has been used
What lives in the soil?	<u>Mushrooms</u> - The fruiting body of the fungus. Some are edible, but some are poisonous.	to support or refute ideas or arguments
	<u>Mycelium - A</u> collection of fungal cells that look a bit like roots.	Reporting and presenting findings from enquiries
	<u>Organisms -</u> A term for any living thing	including conclusions, casual relationships and
	<u>Oxygen</u> - Colourless gas found in the atmosphere.	explanations of and degree of trust in results, in
What is the role of	<u>Prokaryote</u> - A cellular organism which has no nuclear membrane.	oral and written forms such as displays or other
<i>n</i> .0	<u>Reptile - Cold-blooded vertebrate like snakes, lizards with scales.</u>	presentations, identifying scientific evidence that
fungi?	<u>Species -</u> The smallest class of organisms	has been used to support or refute ideas
	<u>Spores</u> - Seed-like cells that help some kinds of plants and bacteria to reproduce.	Grouping and classifying.
	<u>Taxonomy-</u> the science of investigating which groups different organisms belong in.	Record scientific data using diagrams Use test results to make predictions to set up
	<u>Unicellular</u> - an organism which consists of one cell	further comparative and fair tests.
	<u>Vertebrates</u> - an animal with a backbone/ Invertebrate - an animal with no back bone (eg jellyfish)	further comparative and fair cests.
	<u>Yeasts</u> - a single-celled fungi.	
	<u>Zoologist -</u> somebody who studies animals.	

Carl Linnaeus

Carl Linnaeus was a Swedish naturalist. He created two scientific systems: the system for classifying plants and animals and the system for naming all living things.



Carl Linnaeus' book called 'Systema Naturae' laid out the classification of living things.

