Bishop Bronescombe C of E Primary School

Topic: Livings things and their habitats (Y6)

Year 5/6

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Strand: Biology
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What your child should already know:

recognise that living things can be grouped in a variety of ways.
explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.

By the end of the unit, your child should be able to:

• describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals

•give reasons for classifying plants and animals based on specific characteristics. In 1735, Swedish Scientist Carl Linnaeus first published a system for **classifying** all living things. An adapted version of this system is still used today: The Linnaeus System.

Classification

Living things can be **classified** by these eight levels. The number of living things in each level gets smaller until the one animal is left in its species level.

Each group allows scientists to observe and understand the **characteristics** of living things more clearly. They group similar things together then split the groups again and again based on their differences.

Scientists, called **Taxonomists**, sort and group living things according to their similarities and differences.

	Is it warn	ıblooded?	
yes		no	
Does it have feathers?		Does it live	on land?
yes It's a bird	no It's a mammal	yes Does it have scales?	no It's a fish
yes no It's a It's an reptile amphibian			

Key Vocabulary			
Word	Meaning		
characteristics	Special qualities or appear- ances that make an individ- ual or group of things different to others.		
classify	To sort things into different groups.		
taxonomist	A scientist who classifies different living things into categories.		
key	A key is a series of ques- tions about the characteris- tics of living things. A key is used to identify a living thing or decide which group it belongs to by answering 'yes' or 'no' questions.		



The Linnaeus System

Below is an example of how a dog would be classified.

Domain: Eukarya	jackal, clownfish, cat, dog, ladybird, daisy, rabbit, fox		
Kingdom: Animals	jackal, clownfish, cat, dog, ladybird, rabbit, fox		
Phylum: Chorodata	jackal, clownfish, cat, dog, rabbit, fox		
Class: Mammals	jackal, cat, dog, rabbit, fox		
Order: Carnivore	jackal, cat, dog, fox		
Family: Canidae	jackal, dog, fox		
Genus: Canis	jackal, dog		
Species: Lupus	dog Para di la		

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Microorganisms

Microorganisms are viruses, **bacteria**, moulds and yeast. Some animals (dust mites) and plants (phytoplankton) are also **microorganisms**.

Microorganisms are very tiny living things that can only be seen using a **microscope**. They can be found in and on our bodies, in the air, in water and on objects around us.

Helpful Microbes	Harmful Microbes
Bacteria – cheese	Bacteria – salmonella is a bacterium that can lead to food poisoning.
Yeast – wine	Virus – chicken pox and flu are examples of viral dis- eases.
Bacteria – yoghurt	Fungi – athlete's foot
Yeast – bread dough	Bacteria – plaque
Penicillium fungi- an- tibiotics	Fungi - mould







	Key Vocabulary	
A II	Word	Meaning
	bacteria	A single-celled microorgan- ism.
	micr oorg anism	An organism that can only be seen using a microscope, e.g. bacteria, mould and yeast.
	microscope	A piece of equipment that is used to view very tiny (microscopic) things by magnifying their appear- ance.
	species	A group of animals that can reproduce to produce fertile offspring.

