

Buglawton Primary School

Be the Best We Can

Topic: Living things and their habitats

Subject: Science

Year: 6

Term: Summer

What should I 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.
- 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.

What will I know and by the end of the unit?

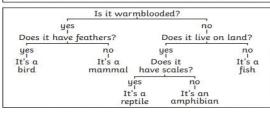
- Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.
- Give reasons for classifying plants and animals based on specific characteristics.

What will I be able to do by the end of the unit?

- Can give examples of animals in the five vertebrate groups and some of the invertebrate groups
- Can give the key characteristics of the five vertebrate groups and some invertebrate groups
- Can compare the characteristics of animals in different groups
- Can give examples of flowering and non-flowering plants
- Can use classification materials to identify unknown plants and animals
- Can create classification keys for plants and animals
- Can give a number of characteristics that explain why an animal belongs to a particular group

Key Vocabulary		
characteristics	Special qualities or appearances that make an individual 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 questions about the characteristics 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.	

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



Classification

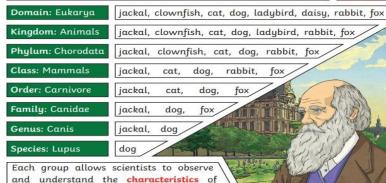
In 1735, Swedish Scientist Carl Linnaeus first published a system for classifying all living things. An adapted version of this system is still used today: The Linnaeus System.

living things more clearly. They group

again and again based on their differences.

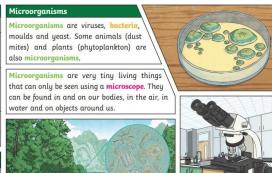
similar things together then split the groups

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. This is how a dog would be classified.



bacteria	A single-celled microorganism.	
microorganism	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 appearance.	
species	A group of animals that can reproduce to produce fertile offspring.	

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 diseases
Bacteria – yoghurt	Fungi – athlete's foot
Yeast – bread dough	Bacteria - plaque
Penicillium fungi - antibiotics	Fungi - mould





Agreed Real-life outcome:

Create an imaginary animal which has features from one or more groups.