# Willerby Carr Lane Primary School - Science Topic: Living Things and their Year: 6 Strand: Biology Habitats

# What should I already know?

- the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- the life process of reproduction in some plants and animals.

What will I know by the end of the unit?			
describe how	•	Key features to distinguish between	
living things are		animals:	
classified into		<ul> <li>Invertebrate or Vertebrate</li> </ul>	
broad groups		<ul> <li>Mammal/Reptile/Fish/Amphibian/</li> </ul>	
according to		Bird/insects/arachnids/annelids/m	
common		olluscs/crustaceans/echinoderms.	
observable		o Colour	
characteristics		<ul><li>Length</li></ul>	
and based on		<ul> <li>Number of legs</li> </ul>	
similarities and		<ul> <li>Number of body segments</li> </ul>	
differences,		<ul> <li>Distinguishing features</li> </ul>	
including		<ul> <li>Habitat</li> </ul>	
microorganisms,	•	Key features to distinguish between	
plants and		plants:	
animals		<ul><li>Flowering or Non-Flowering</li></ul>	
		<ul><li>Grass/cereal/garden</li></ul>	
		shrub/deciduous/algae/coniferous	
		/fern	
		⊙ Colour	
		⊙ Height	
		<ul><li>Number of flowers</li></ul>	
		○ Fruit bearing or not	
		o Distinguishing features	
		○ Usual location	
	•	Microorganisms: are very tiny living	
		things. Microorganisms can be found	
		all around us. They can live on and in	
		our bodies, in the air, in water and on	
		the objects around us. They can be	
		found in almost every habitat on	
		Earth.	
give reasons for	•	Scientists sort and group living things	
classifying plants		according to their similarities and	
and animals		differences. This is called	
based on specific		classification. Scientists who classify	
characteristics.	١.	living things are called taxonomists.	
	•	Carl Linnaeus:  O Born in Sweden on 23 <sup>rd</sup> May 1707	
		•	
		<ul> <li>A leading light in the field of Taxonomy</li> </ul>	
		<ul><li>Famous for developing the first</li></ul>	
		system to classify animals	
		effectively.	
		enectively.	

Vocabulary			
annelids	usually elongated segmented		
	invertebrates (such as earthworms and		
	leeches)		
bacteria	a very large group of microorganisms.		
botany	the study of plants.		
Carl Linnaeus	Carl Linnaeus made it his life's work to		
	develop and refine a way to classify and		
	name all life on earth.		
classifying	to arrange or organize according to class		
	or category.		
coniferous	any of an order (coniferales) of mostly		
	evergreen trees and shrubs having		
	usually needle-shaped or scalelike leaves		
deciduous	(of a tree or shrub) shedding its leaves		
	annually.		
decomposers	fungi and bacteria that absorb nutrients		
	from nonliving organic material such as		
	corpses, fallen plant material, and the		
	wastes of living organisms, and convert		
	them into inorganic forms.		
echinoderms	marine invertebrate, such as a starfish,		
	sea urchin, or sea cucumber.		
fern	a flowerless plant which has feathery or		
	leafy fronds and reproduces by spores		
	released from the undersides of the		
	fronds.		
herbaceous	in plants, nonwoody.		
identification	the act of identifying.		
invertebrates	an animal that lacks an internal		
	skeleton. all animals other than fish,		
	amphibians, reptiles, birds, and mammals		
	are invertebrates. approximately 95% of		
	all animals are invertebrates		
micro-organisms	any organism of microscopic size		
perennials	a plant that lives for many years.		
quadrupeds	a four-footed animal.		
taxonomy	naming, describing, and classifying		
taxonomy	organisms into different categories on		
	the basis of their appearance and other		
	diagnostic characteristics as well as their		
	evolutionary relationships		
virus	a category of extremely small microscopic		
vilus	parasites of plants, animals, and bacteria.		
	since viruses cannot reproduce without a		
	host cell, they are not strictly speaking		
	living organism		
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### Investigate!

- Classify animals
- Classify plants
- Microorganisms grow your own bacteria
- Research Carl Linnaeus

# **Common misconceptions**

## Some children may think:

- all micro-organisms are harmful
- mushrooms are plants.



