



Science focus	Living Things and Their Habitats	Year 6	Autumn Term
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What? (Key Knowledge)		What? (Key Vocabulary)	
<b>Key scientists</b>		<b>characteristics</b>	Special qualities or appearances that make an individual or group of things different to others.
<b>Carl Linnaeus</b>	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 can be classified by eight levels. The number of living things in each level gets smaller until the one animal is left in its species level.	<b>classify</b>	To sort things into different groups.
<b>Scientific theories</b>		<b>taxonomist</b>	A scientist who classifies different living things into categories.
<b>What is classification?</b>	Scientists, called Taxonomists, sort and group living things according to their similarities and differences. 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.	<b>key</b>	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.
<b>What are microorganisms?</b>	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.	<b>bacteria</b>	A single-celled microorganism.
<b>What are helpful microbes?</b>	Bacteria—cheese Yeast—wine Bacteria—yoghurt Yeast—bread dough Penicillium fungi - antibiotics	<b>microorganism</b>	An organism that can only be seen using a microscope, e.g. bacteria, mould and yeast.
<b>What are unhelpful microbes?</b>	Bacteria - salmonella is a bacterium that can lead to food poisoning Virus - chicken pox and flu are examples of viral diseases Fungi - athlete's foot Bacteria - plaque Fungi - mould	<b>microscope</b>	A piece of equipment that is used to view very tiny (microscopic) things by magnifying their appearance
<b>Possible experiences</b>		<b>species</b>	A group of animals that can reproduce to produce fertile offspring

- Classifying wildlife found in our very own Nature's Nook
- Investigating how we can grow bacteria

## Diagrams and symbols

<b>Domain: Eukarya</b>	jackal, clownfish, cat, dog, ladybird, daisy, rabbit, fox
<b>Kingdom: Animalia</b>	jackal, clownfish, cat, dog, ladybird, rabbit, fox
<b>Phylum: Chordata</b>	jackal, clownfish, cat, dog, rabbit, fox
<b>Class: Mammalia</b>	jackal, cat, dog, rabbit, fox
<b>Order: Carnivora</b>	jackal, cat, dog, fox
<b>Family: Canidae</b>	jackal, dog, fox
<b>Genus: Canis</b>	jackal, dog
<b>Species: Lupus</b>	dog

