

Kingsley CP Knowledge Organiser



Science focus

Living Things and Their Habitats Year 6

Autumn Term

	Their Hadinas		
Key Knowledge			
	Key scientists	t	
Carl Linnae- us	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.	t	
	The number of living things in each level gets smaller until the one animal is left in its species level.	i	
Scientific theories			
Hoe can we sort ani- mals?	Wings/ no wings; how many legs; come from eggs/ don't come from eggs; insects/ not insect; type of animal (e.g. reptile, bird, amphibian, mammal etc); beak/ no beak	n P.	
What is classifica- tion?	Scientists, called Taxonomists, sort and group living things according to their similarities and differences. They group similar things together then split	m.	
	the groups again and again based on their differences.		
What are microorgan-isms?	Microorganisms are viruses, bacteria, moulds and yeast. Some animals (dust mites) and plants (phytoplankton) are also microorganisms. Microor-	Æ	
	ganisms are very tiny living things that can only be seen using a microscope. They can be found in	ar	
	and on our bodies, in the air, in water and on objects around us.		
What are helpful mi- crobes?	Bacteria—cheese Yeast—wine Bacteria—yoghurt	л	
	Yeast-bread dough Penicillium fungi – antibiotics	а	
What are unhelpful microbes?	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		
Conditions to grow mould	Warmth, damp, stagnant air, food or something for mould to grow on		
How to prevent mould	Refrigerate, freeze, well-sealed packaging, adding additives/ preservatives. Certain foods are more resilient to mould: smoked, tinned, dried, cured		
prevent	additives/preservatives. Certain foods are more		

Key	Vocabulary
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charac-	Special qualities or appearances that make an in-
teristics	dividual or group of things different to others.
classify	To sort things into different groups.
taxono-	A scientist who classifies different living things
mist	into categories.
vertebrate	An animal with a backbone.
inverte- brate	An animal without a backbone.
bacteria	A single-celled microorganism.
microor- ganism	An organism that can only be seen using a microscope, e.g. bacteria, mould and yeast.
Placental animal	An animal that grows its young inside the mother whilst being kept alive by a placenta
marsupi- als	A mammal that does not develop a true placenta and that usually have a pouch on the abdomen of the female which covers the teats and serves to carry the young.
species	A group of animals that can reproduce to produce fertile offspring.
arachnid	They all have 8 legs, no antennae and their bodies are split into two parts.
anthropod	Invertebrate animals with an exoskeleton, a seg- mented body and body parts which stick out e.g. legs
mollusc	Invertebrate animals with a soft, unsegmented body, living in damp or aquatic environments. They often have a shell.
amphibi- an	Vertebrate animal which is cold blooded which are able, when adult, to live both in water and on land. They lay jelly covered eggs, called spawn.
reptile	Vertebrate animal who has dry scaly skin and typically lays soft-shelled eggs on land.

Diagrams and symbols

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

Is it warmblooded?

yes no
Does it have feathers? Does it live on land?

yes no yes no
It's a It's a Does it It's a
bird mammal have scales? fish

yes no
It's a It's a mammal have scales? and the scales?

Investigation

Give reasons why a particular invertebrate belongs to a certain group.