

ING THINGS and their habitats knowledge organiser



What you should already know...



-Animals and plants can be classified into different groups based on their characteristics.

 -Animals can be grouped into vertebrates (with a backbone) and invertebrates (without a backbone).

-They can then be subdivided into further groups, for example mammals, fish, reptiles etc. (vertebrotes) or spiders, snails, worms etc. (invertebrates).

-Plants are commonly grouped into flowering plants and non-flowering plants. They too can be sub-divided beyond these broad classifications.

What? (Key Vocabulary)	
Spelling	Definition/Sentence
Taxonomy	The part of science focused on classification
Classification	Grouping something using its features
Distinguish	Recognise a difference
Microorganism	A microscopic organism

Who? (Scientists we need to know about)

3 facts about Carl Linnaeus

- Born in Sweden on 23rd May 1707
- A leading light in the field of Taxonomy
- Famous for developing the first system to classify animals effectively

Diagrams and Symbols Pond Invertebrate Key 60 Is it really small (less than 2mm)? Cyclops Does it have legs? Does it have a shell? the bottom of Does it have 6 legs? Does live on the surface of the Are a pair of legs much larger than Does it have 3 tails? Does it have large Dragonfly nymph

What? (Key Knowledge)		
Grouping living things		
Animals can be put into one of two groups	Vertebrates or invertebrates	
Vertebrates		
Vertebrates	Are animals with a backbone	
There are 5 ways Vertebrates can be grouped	Fish, amphibians, reptiles, birds, mammals	
How to spot a Fish	Breathes with gills/lays eggs in water/has fins and scales/its body temperature changes	
How to spot an Amphibian	Born with gills then develops lungs/lays eggs in water/damp skin/body temperature changes	
How to spot a Reptile	Breathes with lungs/lays eggs on land/dry scaly skin/body temperature changes	
How to spot a Bird	Breathes with lungs/lays eggs with hard shells/ has feathers/steady body temperature	
How to spot a Mammal	Breathes with lungs/babies are born live/body hair or fur/steady body temperature/feeds babies milk	
	Invertebrates	
Invertebrates	Are animals with no backbone	
There are 3 ways	Insects	
There are 3 ways Invertebrates can be	Arachnids	
grouped	Molluscs	
How to spot an Insect	3 body sections/6 legs	
How to spot an Arachnid	2 body sections/8 legs	
How to spot a Mollusc	Slimy foot/Often have a shell	
Deciding which animal or plant is which		
	Invertebrate or vertebrate	
	Mammal/reptile/fish/amphibian/bird	
	Colour	
Key Features to distinguish	Length	
between animals	Number of legs	
	Number of body segments	
	Distinguishing features	
	Habitat	
Key Features to distinguish between plants	Flowering or non-flowering	
	Grass/cereal/garden shrub/deciduous/algae/ coniferous/fern	
	Colour	
	Height	
	Number of flowers	
	Fruit bearing or not	
	Distinguishing features	
	Usual location	
Microorganisms		
Key features of microorganisms	 Include algae, fungi, protozoa, bacteria and viruses 	
	Smallest organisms on Earth	
	They perform photosynthesis, break down waste and infect other organisms	