

The National C of E Junior School

Science Focus:

Living things and their habitats

Year 4

Autumn 2nd Half-Term

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	<ul style="list-style-type: none"> Fish Amphibians Reptiles Birds Mammals
Features of a fish	<ul style="list-style-type: none"> Breathes with gills/lays eggs in water/has fins and scales/its body temperature changes
Features of an Amphibian	<ul style="list-style-type: none"> Born with gills then develops lungs/lays eggs in water/damp skin/body temperature changes
Features of a Reptile	<ul style="list-style-type: none"> Breathes with lungs/lays eggs on land/dry scaly skin/body temperature changes
Features of a Bird	<ul style="list-style-type: none"> Breathes with lungs/lays eggs with hard shells/has feathers/steady body temperature
Features of a Mammal	<ul style="list-style-type: none"> Breathes with lungs/babies are born live/body hair or fur/steady body temperature/feeds babies milk

Invertebrates

Invertebrates	Invertebrates are animals with no backbones.
There are 3 ways Invertebrates can be grouped	<ul style="list-style-type: none"> Insects Arachnids Molluscs
Features of an Insect	<ul style="list-style-type: none"> 3 body sections/6 legs
Features of an Arachnid	<ul style="list-style-type: none"> 2 body sections/8 legs
Features of a Mollusc	<ul style="list-style-type: none"> Slimy foot/Often have a shell

Classifying Animals and Plants

How can we group?	We can create branched diagrams to help us. Have a look at the diagram.
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Adaptations

What can change?	These can be physical changes to the animals body or behavioral changes in animal
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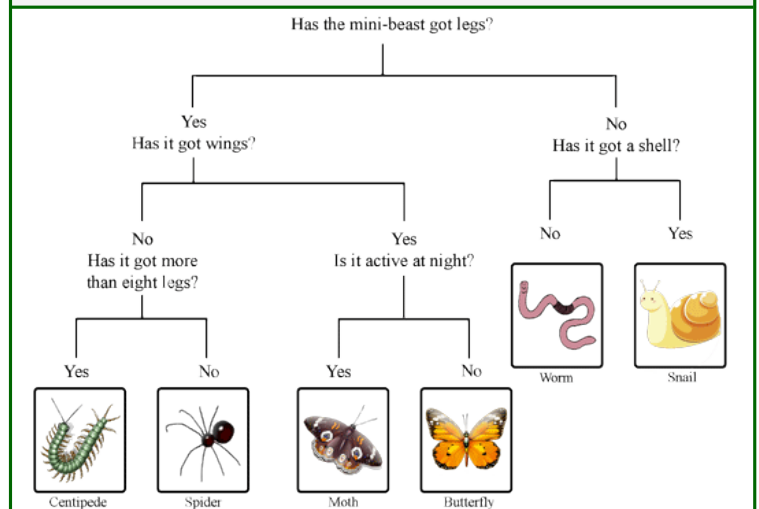
Changing Habitats

How can habitats change?	Humans can change habitats, for example by dropping litter or chopping down trees.
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What? (Key Vocabulary)

Spelling	Definition/Sentence
Gills	Slits on the side of a fish to help it breathe.
Fins	Part of a fish that helps it move and balance.
Scales	Thin plates protecting the skin of fish or reptiles.
Lungs	Spongy bags in the chest used when breathing.
Body Temperature	How hot or cold the inside of an animals body is.
Section	A part of something.
Habitat	The natural home or environment of an animal or plant
Classify	To group or arrange animals into categories according to characteristics
Adaptation	The process of change by which an organism or species becomes better suited to its environment.

Diagrams and Symbols



Prior Knowledge

- To identify that most living things live in habitats
- To identify and name a variety of plants and animals in their habitats
- Describe how animals obtain their food from plants and other animals.

