



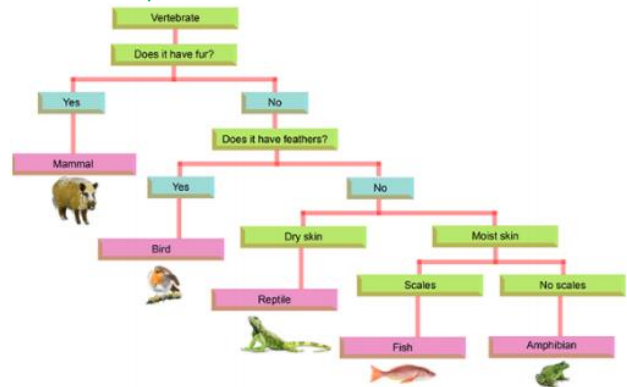
What I should already know.

- Animals can be grouped into **vertebrates** (and then further into fish, reptiles, amphibians, birds and mammals) and **invertebrates**.
- Animals can be grouped into **carnivores**, **herbivores** and **omnivores**.
- The differences between the teeth of **carnivores** and **herbivores**.
- The names of some common wild and garden plants and **deciduous** and **evergreen** trees.
- Examples of **habitats** (including **microhabitats**) and the animals and plants that can be found there.
- Living things depend on each other to **survive**.
- How **food chains** work.
- How land use has changed over time and the effects this has had on the **environment** (e.g. **urban** development)

Diagram



Classification Key:



What I will know by the end of the unit.

How can living things be grouped?

- All living things, which can also be called **organisms**, have to do certain things to stay alive. These are the **life processes**:
 - movement
 - respiration
 - sensitivity
 - growth
 - reproduction
 - excretion
 - nutrition
- Living things can be grouped according to different criteria (where they live, what type of organism they are, what features they have). For example, a camel can belong in a group of vertebrates, a group of animals that live in the desert, and a group of animals that have four legs.

What is a classification key?

- A **classification key** is a tool that is used to group living things to help us identify them.

How can environments change?

- Habitats** can change throughout the year and this can have an effect on the plants and animals that live there.
- Humans can have a positive and negative effect on the environment:
 - positive effects: nature reserves, ecological parks
 - negative effects: litter, **urban** development

Investigate

- Complete Venn diagrams to show if living things can be grouped into two or more groups.
- Use **criteria** to sort living things in a Carroll diagram
- Sort **vertebrate** and **invertebrate** animals into groups, describing their key features. Use a **classification key** to identify which group of **vertebrates** animals belong to and then create your own.
- Sort plants into groups (e.g. flowering plants and non-flowering plants) and then create a **classification key** to help others identify plants.
- Carefully observe **minibeasts** in a **microhabitat** and use a **classification key** to identify them.
- Use simple computer software programmes to create a branching **classification key**.
- Explore examples of human impact (both positive and negative) on **environments**.





Vocabulary





biomes	a natural area of vegetation and animals
carnivore	an animal that eats meat
classification key	a system which divides things into groups or types
criteria	a factor on which something is judged
deciduous	trees that lose leaves in the autumn every year
environment	all the circumstances, people, things, and events around them that influence in their life
evergreen	a tree or bush which has green leaves all year round
excretion	the process of eliminating waste from the body
food chain	a series of living things which are linked to each other because each thing feeds on the one next to it in the series
habitat	the natural environment in which an animal or plant normally lives or grows
herbivore	an animal that only eats plants
invertebrate	a creature that does not have a spine, for example an insect, a worm, or an octopus
life processes	there are seven processes that tell us that living things are alive
microhabitat	a small part of the environment that supports a habitat , such as a fallen log in a forest
minibeast	a small invertebrate animal such as an insect or spider
nutrition	the process of taking food into the body and absorbing the nutrients in those foods
omnivore	person or animal eats all kinds of food, including both meat and plants
organism	a living thing
reproduction	when an animal or plant produces one or more individuals similar to itself
sensitivity	responding to the external environment
urban	belonging to, or relating to, a town or city
vegetation	plants , trees and flowers
vertebrate	a creature which has a spine







Question 1: Which of these is not a vertebrate?	Start of unit:	End of unit:
bird		
mammal		
reptile		
insect		
amphibian		

Question 2: A duck and a fish are similar because... (tick three)	Start of unit:	End of unit:
they are both vertebrates		
they both need food and water to survive		
they both breathe using gills		
they are both invertebrates		
they both lay eggs		

Question 3: Write the word of each living thing in the Venn diagram to show where they belong.	Start of unit:	End of unit:
 camel  cactus  polar bear  whale <div style="display: flex; justify-content: center; align-items: center; margin: 20px 0;"> <div style="border: 1px solid black; border-radius: 50%; width: 150px; height: 150px; margin-right: 20px; display: flex; flex-direction: column; justify-content: center; align-items: center;"> has four legs </div> <div style="border: 1px solid black; border-radius: 50%; width: 150px; height: 150px; display: flex; flex-direction: column; justify-content: center; align-items: center;"> can be found in the desert </div> </div>		



Question 4: Write the word of each living thing in the Carroll diagram to show where they belong.	Start of unit:	End of unit:									
 salmon  sparrow  rabbit  frog <div style="display: flex; justify-content: center; align-items: center; margin: 20px 0;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="width: 100px;"></td> <td style="width: 100px; text-align: center;">can fly</td> <td style="width: 100px; text-align: center;">can not fly</td> </tr> <tr> <td style="text-align: center;">lays eggs</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">does not lay eggs</td> <td></td> <td></td> </tr> </table> </div>		can fly	can not fly	lays eggs			does not lay eggs				
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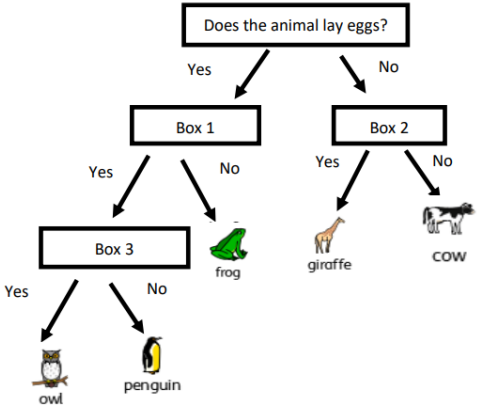
Question 5: Complete the table by adding the name of the minibeast in the right place.	Start of unit:	End of unit:															
 fly  spider  worm  ants <div style="display: flex; justify-content: center; align-items: center; margin: 20px 0;"> <table border="1" style="border-collapse: collapse;"> <tr> <th style="width: 150px;">name</th> <th style="width: 100px;">legs</th> <th style="width: 100px;">wings</th> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">0</td> </tr> <tr> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td></td> <td style="text-align: center;">8</td> <td style="text-align: center;">0</td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">2</td> </tr> </table> </div>	name	legs	wings		6	0		0	0		8	0		6	2		
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	6	0															
	0	0															
	8	0															
	6	2															



Question 6: Which three things do all animals do?	Start of unit:	End of unit:
move		
walk		
reproduce		
grow		

Question 7: What can we use to help us accurately identify living things?	Start of unit:	End of unit:
a food chain		
looking after the environment		
a classification key		
living processes		

Question 8: Name one thing that makes these animals similar and one thing that makes them different.	Start of unit:	End of unit:				
 swan  owl						
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">similar</td> <td style="width: 50%; text-align: center;">different</td> </tr> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </table>	similar	different				
similar	different					

Question 9: Look at the following classification key. Which question belongs to each box?	Start of unit:	End of unit:								
										
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Question</th> <th style="width: 50%;">Box Number (1,2 or 3)</th> </tr> </thead> <tbody> <tr> <td>Does the animal have a long neck?</td> <td></td> </tr> <tr> <td>Is the animal a bird?</td> <td></td> </tr> <tr> <td>Does the animal fly?</td> <td></td> </tr> </tbody> </table>	Question	Box Number (1,2 or 3)	Does the animal have a long neck?		Is the animal a bird?		Does the animal fly?			
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Does the animal have a long neck?										
Is the animal a bird?										
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Question 10: List one way in which we help the local environment.	Start of unit:	End of unit: