

# Science Knowledge Organiser

# Year 4 Spring 2

Animals including humans – prey or predator?

Year

4

Main Foci:

Biology

## What should I already know?

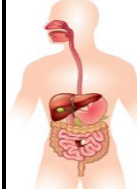
- Animals can be grouped into **carnivores**, **herbivores** and **omnivores** and other ways in which to **classify** animals.
- The differences between the teeth (**incisors**, **molars**, **canines**) of **carnivores** and **herbivores**.
- Examples of **habitats** (including **microhabitats**) and the animals and plants that can be found there.
- Plants need sunlight to grow.
- Living things depend on each other to survive.
- The seven **life processes** and that **nutrition** is one of them.
- Nutrition** is the **life process** by which animals get **energy**.
- How **environments** are changing.

## Vocabulary

canine	pointed teeth near the front of the mouth of humans and of some animals
carnivore	an animal that eats meat
classification key	a system which divides things into groups or types
energy	the ability and strength to do physical things
environment	all the circumstances, people, things, and events around them that influence their life
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
food web	a combination of <b>food chains</b> that integrate to form a network
habitat	the natural <b>environment</b> in which an animal or <b>plant</b> normally lives or grows
herbivore	an animal that only eats plants
incisor	the teeth at the front of your mouth which you use for biting into food
life processes	There are seven processes that tell us that living things are alive
microhabitat	a small part of the <b>environment</b> that supports a <b>habitat</b> , such as a fallen log in a forest
molar	the large, flat teeth towards the back of your mouth that you use for chewing food
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 <b>plants</b>
organism	a living thing
predator	an animal that kills and eats other animals
prey	an animal hunted or captured by another for food
primary consumer	an <b>organism</b> that feeds on <u>producers</u> . They are always <b>herbivores</b> .
producer	<b>organisms</b> that make their own food using <b>energy</b> from the Sun.
secondary consumer	<b>organisms</b> that eat <b>primary consumers</b> for <b>energy</b>
tertiary consumer	<b>Tertiary consumers</b> eat <b>primary</b> and <b>secondary consumers</b> as their main source of food

## What will I know by the end of the unit?

Recap and review:  
  
What is the digestive system?



I will know the basic steps of digestion:

- Digestion** starts when the teeth start to break the food down.
- Saliva** is added and the tongue rolls the food into a ball.
- The food is swallowed and passes down the **oesophagus** to the stomach
- In the stomach the food is broken down by chemicals in the stomach
- The food passes through the **small intestine**
- The food passes through the **large intestine**
- The waste leaves the body through the **rectum/anus**

I know that we eat to ensure our body gets enough energy and **nutrients** to survive  
I know that the food we eat is too big to travel through our body so needs to be broken down by the **digestive system** to be absorbed by the body

What is a food chain?

I will know that a **food chain** is a simple way to show the direction in which energy moves from the producer to the various consumers to the top or **tertiary consumer**.



I will know that an animal's **habitat** can effect a **food chain**

Are there any difference in animal's teeth?

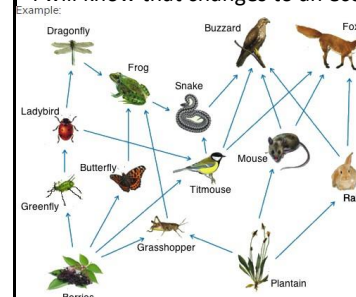
I will know the difference between a **herbivore**, **carnivore** and **omnivore**.  
I will know that an animal's teeth match their diet.  
I will be able to compare the teeth of different animals and can use teeth to identify whether an animal is a **herbivore**, **omnivore** or **carnivore**.

How is a food chain and an animal's habitat linked?

I will know the different **ecosystems**: **deserts**, **tundras**, **forests**, **rainforests**, **savannahs**, **coral reefs** and **marine ecosystems**.

I will know what a **food web** is and how they are constructed.

I will know that changes to an ecosystem/habitat can cause threats to animals and plants.



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