



Year 4 Knowledge Organiser- How can we have a positive impact on our local environment?

What will I learn?

In this topic we will learn to:

- explore and use **classification** keys to help group, identify and name a variety of living things in their local and wider **environment**
- construct and interpret a variety of **food chains**, identifying **producers**, **predators** and **prey**
- research and develop design criteria to inform the design of innovative, functional, appealing products
- generate, develop, model and communicate ideas through discussion, annotated sketches



Previous learning

Y1- What's it like to live in a cold/hot country?

Y2- Are you a superhero?

Y3- How do our bodies stay healthy?

You should already know:

how to identify a variety of common animals including knowledge of fish, bird and mammal groupings

that humans and plants need food, air and water to survive

that humans and animals have skeletons

Vocabulary Dozen

Environment	Everything that surrounds a particular type of living thing affecting its growth and health
Impact	A strong and powerful effect
Positive	Bringing something good or giving some kind of advantage
Negative	Not helpful or constructive
Habitat	A place that an animal lives, providing the animal with food, water and shelter
Producer	The first link in a food chain producing their own food or energy
Consumer	An animal that eats other living things
Classification	An order or grouping for something
Vertebrate	An animal that has a skeleton with a backbone inside its body
Food chain	Order in which living things depend on each other for food
Predator	An animal that hunts other animals for food
Prey	An animal that is hunted and caught for food

Key Knowledge

How can humans affect their local environment?

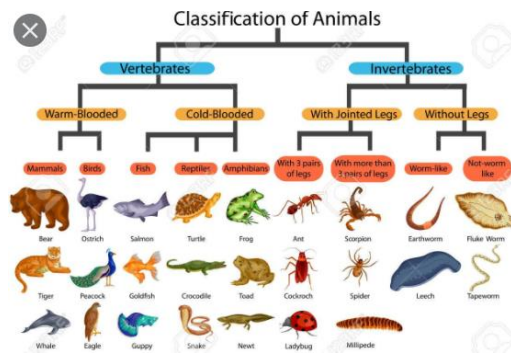
Our local **environment** can be affected by the choices people make. A **negative impact** on our local environment can be due to pollution, littering, anti-social behaviour, graffiti or industry. On the other hand, a **positive impact** can be seen through green spaces such as local parks, allotments and gardens and the nurturing of wildlife within the local area.

Jeanie Baker - Window



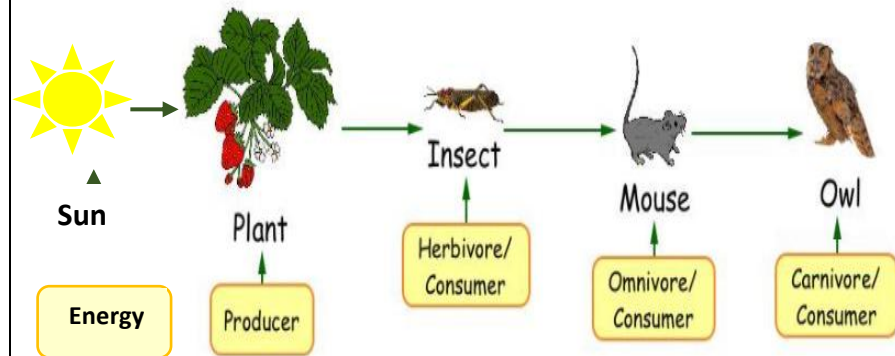
How can you classify these animals?

Animals can be grouped together with other animals which have similar features and characteristics. In the broadest sense, animals can be classified as either **vertebrates** or **invertebrates**.



What is a food chain?

Food chains show how energy from the sun is used by animals in a chain from plants through to animals and even humans. All **food chains** start with a **producer** which is always a green plant that converts the sun's energy into food. Animals then eat the **producer** and are called **consumers**. Sometimes animals eat other animals and these are known as **predators**.



What happens when a food chain is broken?

When a **food chain** is broken this affects the rest of the chain. If the other animals cannot find other sources of food they may also disappear causing the eco system to become unbalanced or even collapse entirely.

Useful Weblinks

1. What is classification? <https://www.bbc.co.uk/bitesize/topics/zn22pv4/articles/z3nbcwx>
2. How do human beings affect the environment? <https://www.bbc.co.uk/bitesize/topics/zn22pv4/articles/z2md82p>

