

EAGLES - SCIENCE

Knowledge Organiser – Spring Term (1) 2020

A world of living things

How do we classify different types of animals?

We classify animals by what they eat and how they feed.

What is a **herbivore**? A herbivore is an animal that eats plants.

What is a **carnivore**? A carnivore is an animal that feeds on other animals.

What is an **omnivore**? An omnivore is an animal that eats plants and other animals.

What is a **producer**? Producers make their own food. Plants are producers.

What is a **consumer**? Consumers get their food by eating plants or other animals (they can be predators or prey)

What is a **predator**? A predator is an animal that hunts and eats other animals.

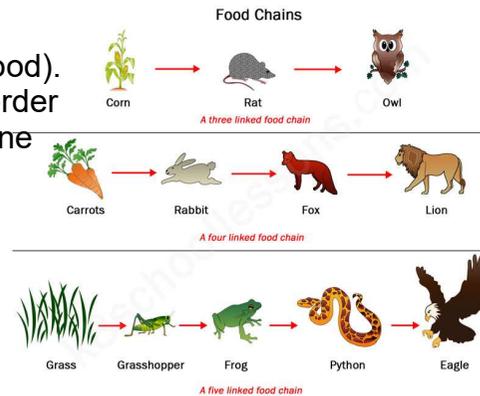
What are **prey**? Prey are animals that get hunted and eaten by other animals.

What is a food chain?

Animals cannot photosynthesise (make their own food). They need to get food (plants or other animals) in order to get energy. Therefore, living things depend on one another in order to survive.

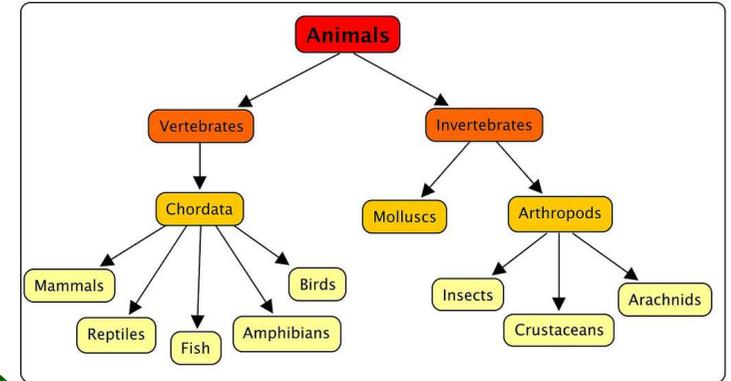
A **food chain** shows the flow of energy between organisms when they are consumed (eaten).

All food chains must start with a producer. The amount of energy decreases as you go up the food chain.



What are classification keys?

We can use classification keys to help group, identify and name a variety of living things. Many things can be grouped in a variety of ways.



What key vocabulary do I need to know?

Invertebrate – An animal lacking a backbone

Vertebrate – An animal which has a backbone / spinal column

Amphibian – A cold-blooded vertebrate animal e.g. frogs, toads, newts

Arachnid – An animal that has 8 legs and a body formed of 2 parts

Bird – A warm-blooded egg-laying vertebrate which has feathers, wings, a beak and can typically fly

Crustaceans – Animals that mostly live in water with a hard shell and segmented body

Insect – A small animal that has six legs and generally one or two pairs of wings

Mammal – A warm-blooded vertebrate animal which has hair or fur, females typically give birth to live young

Microorganism – A microscopic organism such as bacteria, virus or fungus

Reptile – A vertebrate animal that has dry, scaly skin and typically lays soft-shelled eggs on land

Ecosystems

What is an **ecosystem**? An **ecosystem** is used to describe the living organisms in a particular area and the habitat that they live in.

What is a **community**? A **community** is the term given to the plants and animals found in a habitat.

What is a **habitat**? A **habitat** is the place where an organism lives.