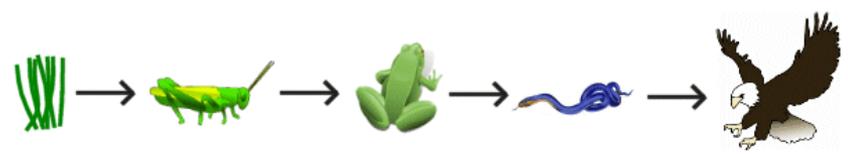


Year 7 Knowledge Organiser - Interdependence



Key words:

Food web: Shows how food chains in an ecosystem are linked.

Food chain: Part of a food web, starting with a producer, ending with a top predator.

Ecosystem: The living things in a given area and their non-living environment.

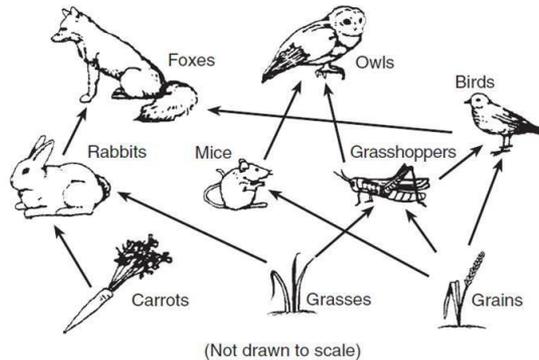
Environment: The surrounding air, water and soil where an organism lives.

Population: Group of the same species living in an area.

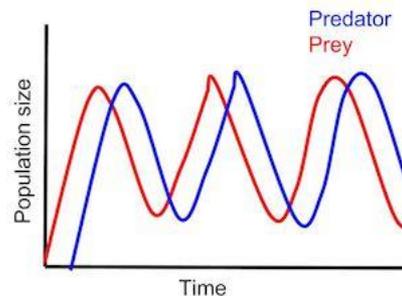
Producer: Green plant or algae that makes its own food using sunlight.

Consumer: Animal that eats other animals or plants.

Decomposer: Organism that breaks down dead plant and animal material so nutrients can be recycled back to the soil or water.



This is a **food web**. It shows lots of interlinked food chains. The species are organised in layers or **trophic levels**. This allows us to recognise how changes to one group of animals or plants impacts the others.



This graph shows the relationship between predators and prey. They are inter-related

This is a **food chain**. The arrows show the flow of energy through the chain. The arrows go from the organism being eaten to the organism eating it.

Below are some pyramids. These can demonstrate several things about a food chain. **Pyramids of number** tell us how many organisms there are at each stage of the food chain, **pyramids of biomass** show how much living matter there is at each stage. **Pyramids of energy** illustrate how much energy there is at each stage



Bees are crucial for human survival as they pollinate our plants. They are currently threatened by parasites, pesticides, loss of habitat, diseases and climate change. It is important to protect bees in the future. How could we do this?

This image shows **bioaccumulation**, the build up of a toxin (such as pesticide) in a food chain. It can be fatal to the species at the top of the food chain.

Websites that might be useful:

<https://www.bbc.com/bitesize/topics/zxhhvcw>
<http://www.docbrown.info/ks3biology/ks3biology.htm>

Extension ideas to research:

<https://www.bbc.com/bitesize/topics/zxfd3k7>
<https://www.youtube.com/watch?v=Qqa0OPbdvjw&spfreload=10>
<https://revisionworld.com/gcse-revision/biology/living-things-their-environment/food-chains-webs>

