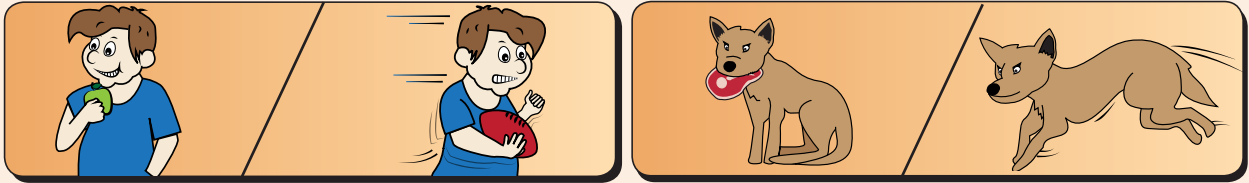


We all need energy to live, so do other animals! An animal's energy is derived from the food it eats.



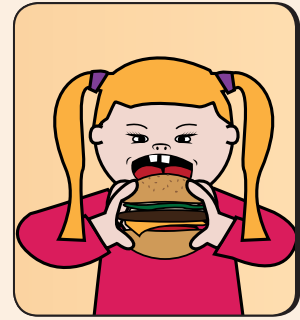
Different animals eat different things as their energy source:



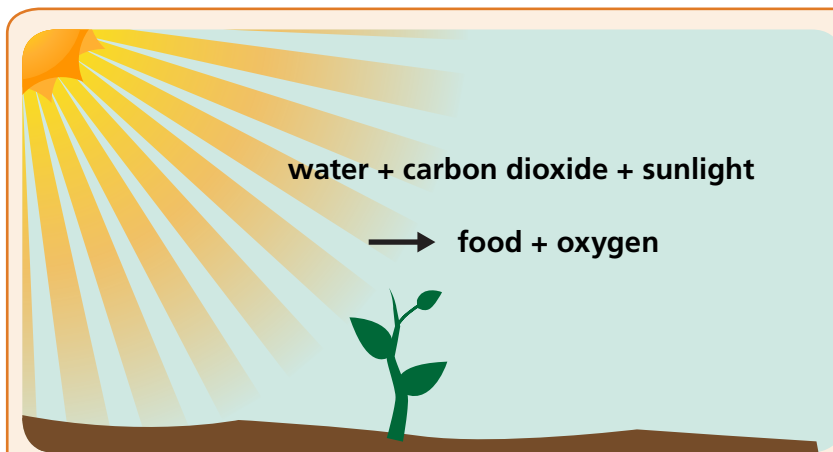
carnivores
only eat animals (meat)



herbivores
only eat plants



omnivores
eat animals and plants

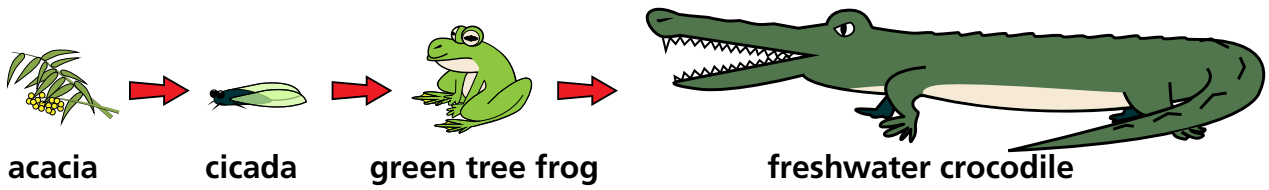


Plants produce their own food, using energy from the sun, by a process called photosynthesis. Because they make their own food plants are called '**producers**'. Animals are called '**consumers**', because they get their energy by consuming other things.

What do you think these eat?

- insectivore
- nectarivore
- frugivore

A **food chain** shows what consumes what in an environment, that is, species that are linked to each other by what they eat. It also illustrates the direction in which energy passes from one species to the next.



Acacia plants are producers.

The arrow shows at the beginning of the food chain, cicadas eat acacia, so cicadas are called 'first order' consumers.

Next in the food chain, green tree frogs eat cicadas, so green tree frogs are 'second order' consumers.

Then, freshwater crocodiles eat frogs, so freshwater crocodiles are 'third order' consumers.

Each animal is named a different order of consumer, based on its position in a particular food chain. Arrows in a food chain always point in the same direction, from the species being eaten to the species doing the eating. They also show the direction in which energy is passed from one species to the next.

A **food web** shows how food chains interconnect.

A food web shows all feeding relationships (links) in an ecosystem, and it may include many different plants and animals.

Food webs normally have **producers** at the bottom of the diagram and high order **consumers** at the top.

