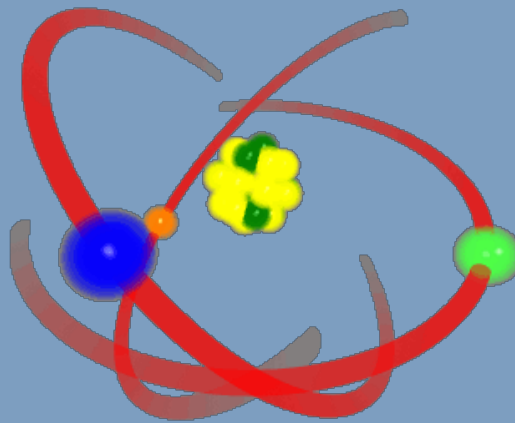
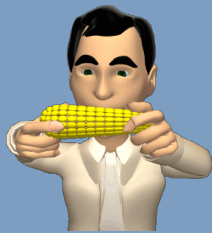


How do things obtain Energy????



Aim: Explain the transfer of energy

All organisms obtain energy differently.

Can you Name some different Organisms??



Aim: Explain the transfer of energy

Autotrophs: **all of the green**

plants or other organisms that can produce their own food.



Autotrophs are a.k.a
PRODUCERS



Aim: Explain the transfer of energy

Autotrophs get all of their energy from the sun and make their own food during the process of PHOTOSYNTHESIS.

Autotrophs are the foundation of all ecosystems because they provide energy for all other organisms

Aim: Explain the transfer of energy

What about things that are not plants?





Aim: Explain the transfer of energy



Heterotroph: **are organisms that obtain their energy by consuming other organisms.**

Heterotrophs are also called consumers.

Aim: Explain the transfer of energy



Animals that eat only plants are called
Herbivores.



Organisms that eat or consume
other consumers are called
Carnivores.



Aim: Explain the transfer of energy

An infographic on a blue background. At the top, the word "OMNIVORES" is written in large, bold, blue letters. Above the letters are various icons representing food: a fish, a bug, an orange, a red apple, a green leaf, a chicken drumstick, a green fish, and a plant. Below the word, the text "These are animals able to eat plants AND animals." is written in a blue, cursive font. Underneath, the text "Some omnivores are:" is followed by a list of animals: humans, most bears, racoons, most primates (apes & monkeys), and seagulls & other birds. To the right of the text are illustrations of a black bear, a yellow monkey, a woman in a green shirt and blue pants, a white and black seagull, and a raccoon.

OMNIVORES

These are animals able to eat plants AND animals.

Some omnivores are:

- humans
- most bears
- racoons
- most primates (apes & monkeys)
- seagulls & other birds

Aim: Explain the transfer of energy



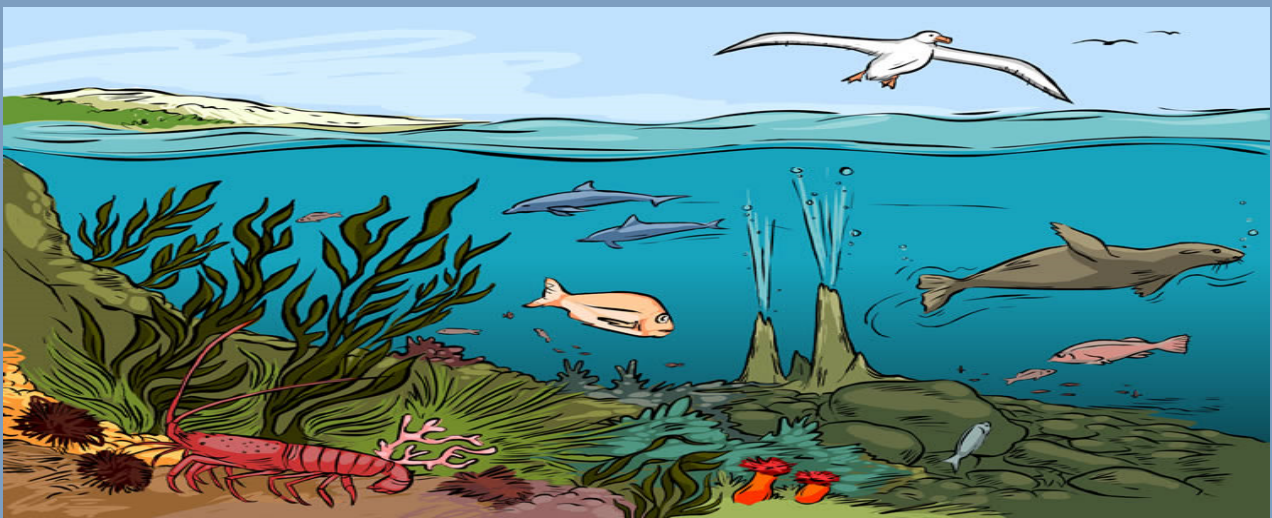
Decomposers:

remove wastes and
dead things from the
environment.



These are also known as Detritivores.

Aim: Explain the transfer of energy





Aim: Explain the transfer of energy

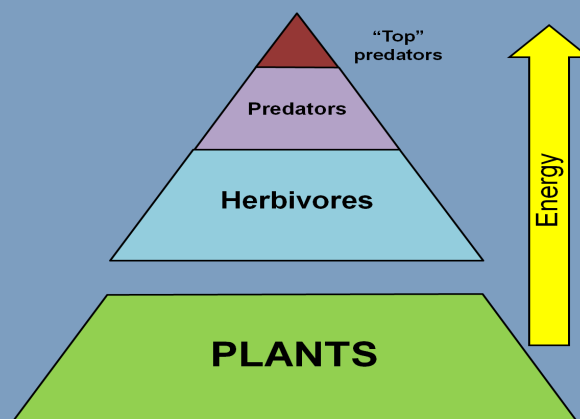
Every organism has their role in an ecosystem.

<https://www.brainpop.com/science/energy/energypyramid/>

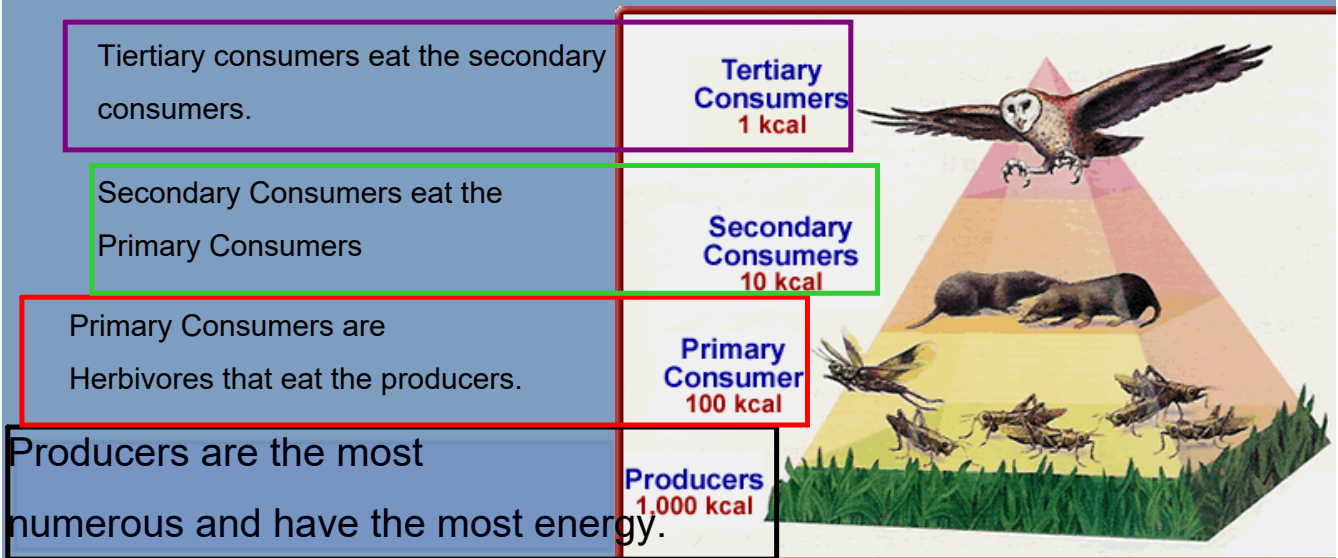


This role is called their niche. They also have a spot in the energy pyramid. This is called their Trophic Level.

Aim: Explain the transfer of energy



Aim: Explain the transfer of energy

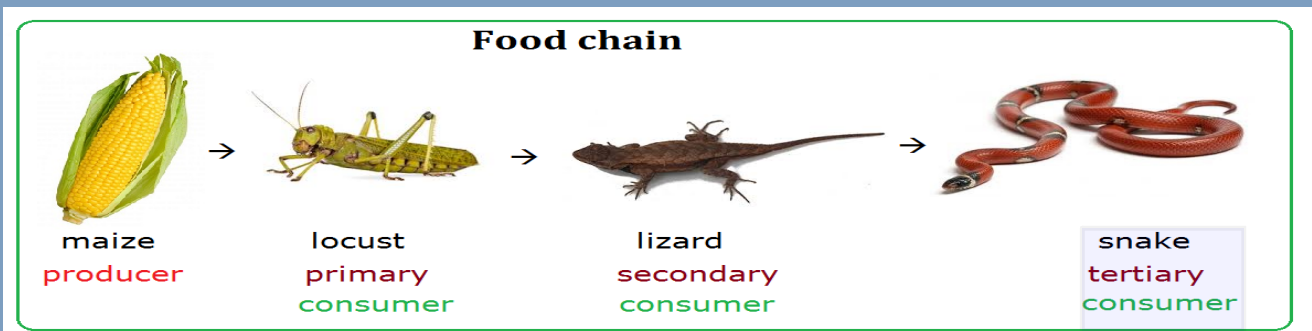


Aim: Explain the transfer of energy
We can describe an organisms Trophic Level
using 2 tools. A Food Chain or a Food Web.

Aim: Explain the transfer of energy

A food chain shows only 1 path of energy flow.

We show this by drawing an arrow from one organism to the next.



<https://www.brainpop.com/science/ecologyandbehavior/foodchains/>



Aim: Explain the transfer of energy

A food web shows many different paths for energy to flow.

Producers are grass & cattails

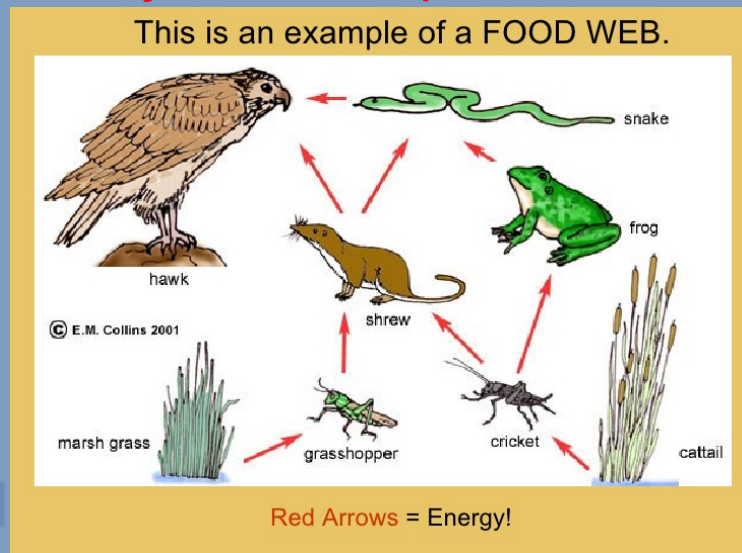
Primary Consumers

are Grasshoppers & Cricket

Secondary Consumers are : shrew and frog

Tertiary consumers are the snake & Hawk

Top of the food chain is the **HAWK**



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