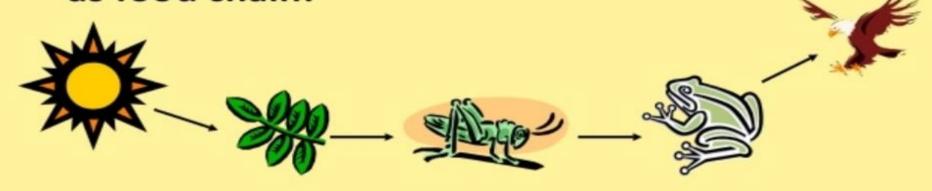


What is Food Chain?

Flow of energy in an ecosystem is one way process. The sequence of organism through which the energy flows, is known as food chain.

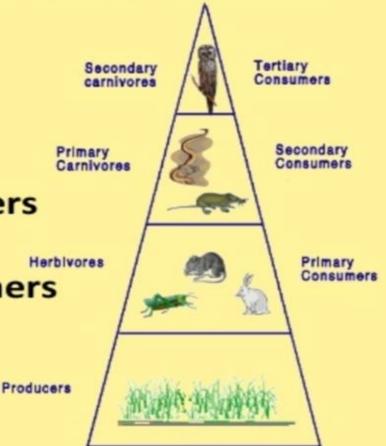


Important facts

- In a food chain each organism obtains energy from the one at the level below.
- Plants are called producers because they create their own food through photosynthesis
- Animals are consumers because they cannot create their own food, they must eat plants or other animals to get the energy that they need.

Tropic levels in a food chain

- **Producers**
- Consumers
 - (i) Primary consumers
 - (ii) Secondary consumers
 - (iii) Tertiary consumers
 - (iv) Quaternary consumers
- Decomposers

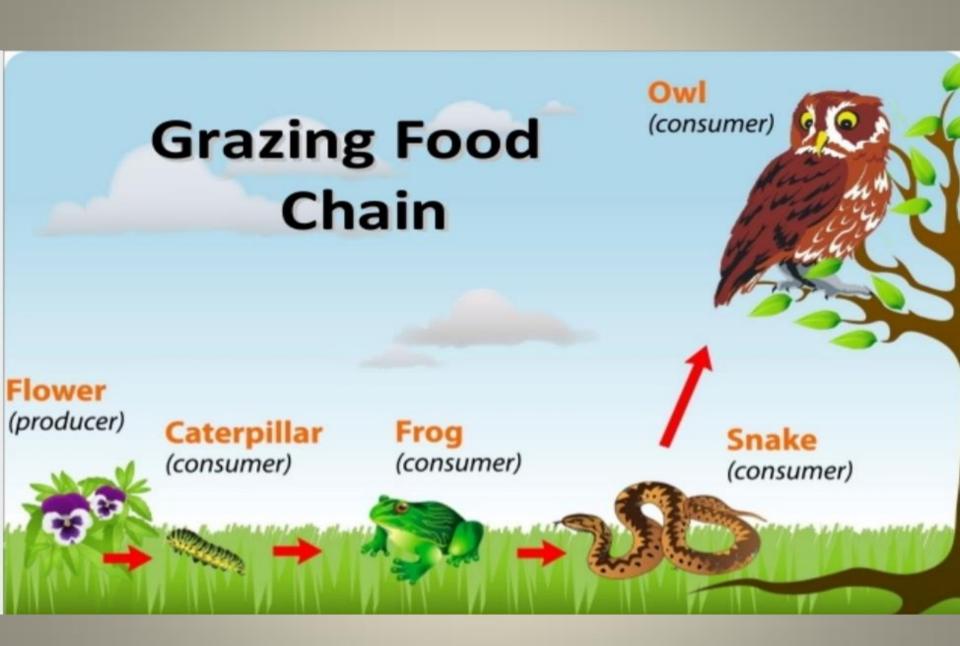


Types of Food Chain

(i) Grazing Food Chain

- The consumers utilizing plants as their food, constitute grazing food chain.
- This food chain begins from green plants and the primary consumer is herbivore.
- Most of the ecosystem in nature follows this type of food chain.

Ex: grass => grasshopper => birds => falcon



(ii) Detritus food chain

- This type of food chain starts from dead organic matter of decaying animals and plant bodies to the micro-organisms and then to detritus feeding organism and to other predators.
- The food chain depends mainly on the influx of organic matter produced in another system.
- The organism of the food chain includes algae, bacteria, fungi, protozoa, insects, nematodes etc.





Bacteria Millipede (detrivore)

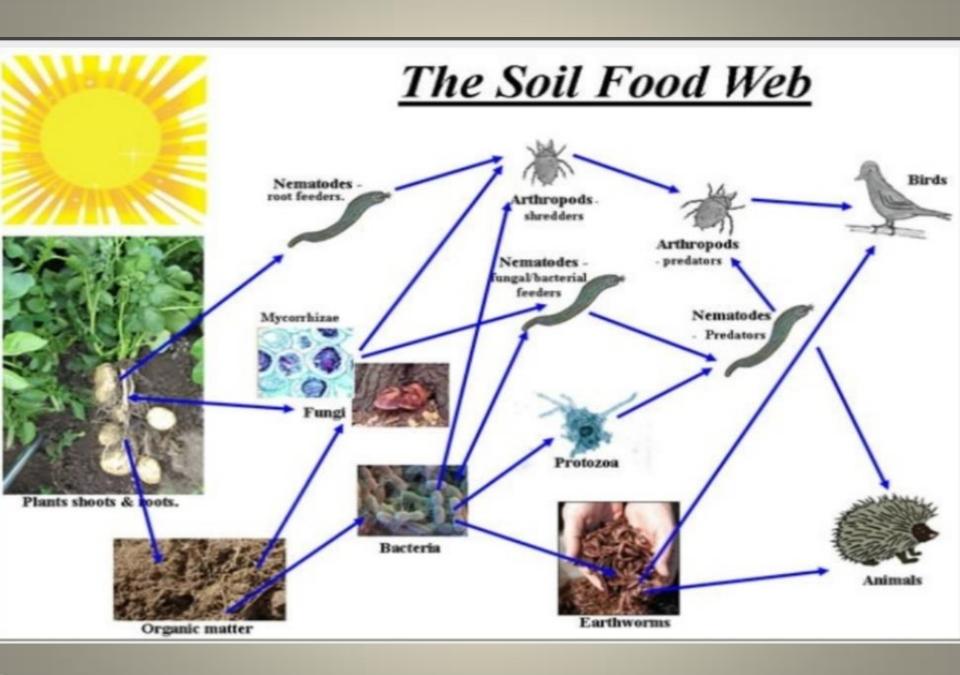
Aerobic Respiration

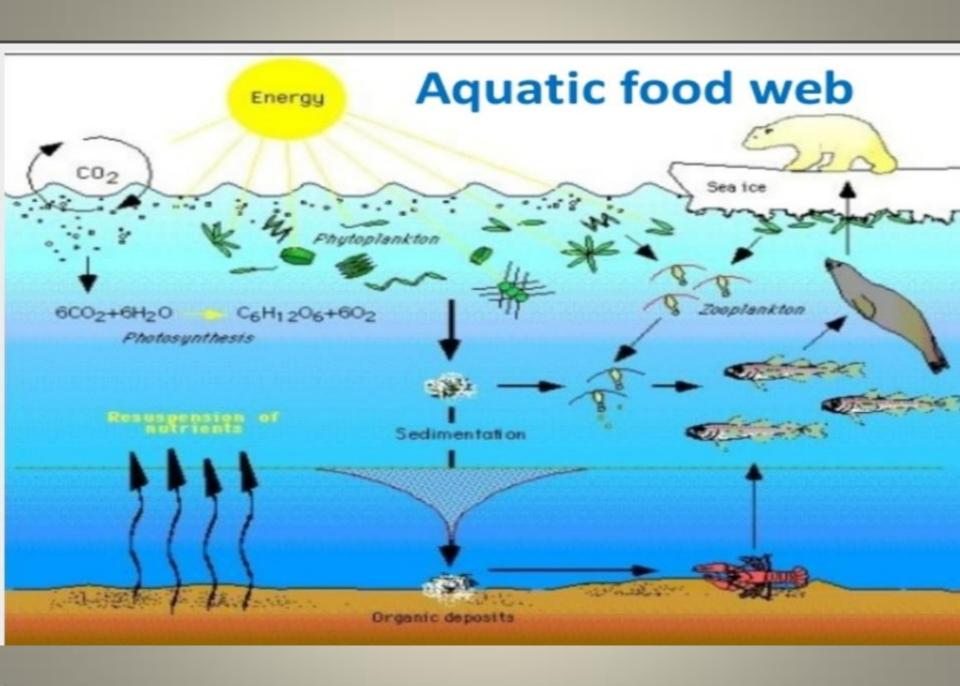
Inorganic nutrients

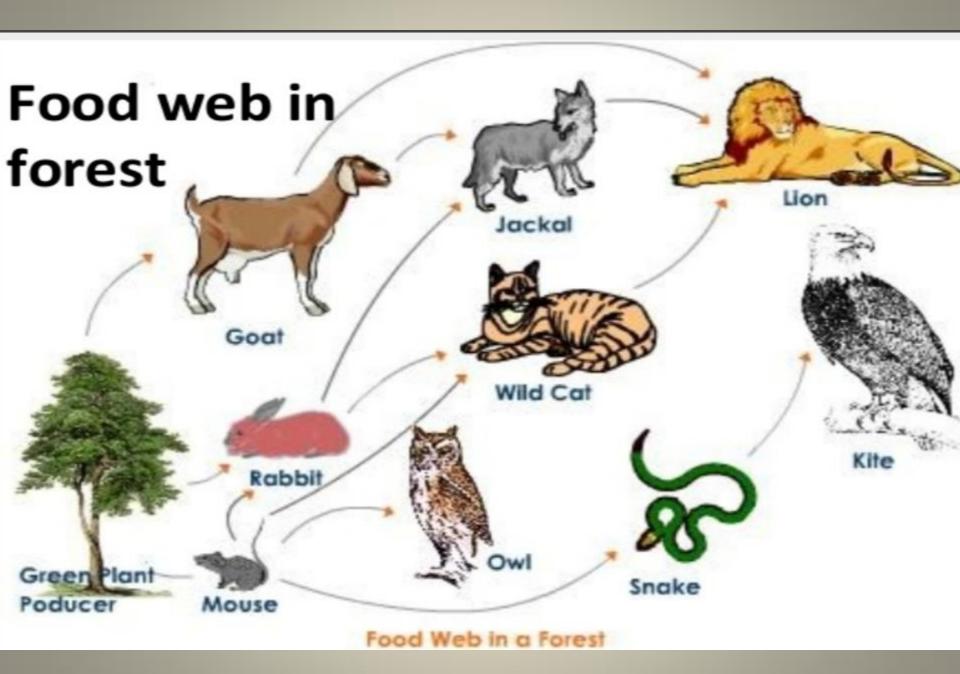
Significance of Food Chain

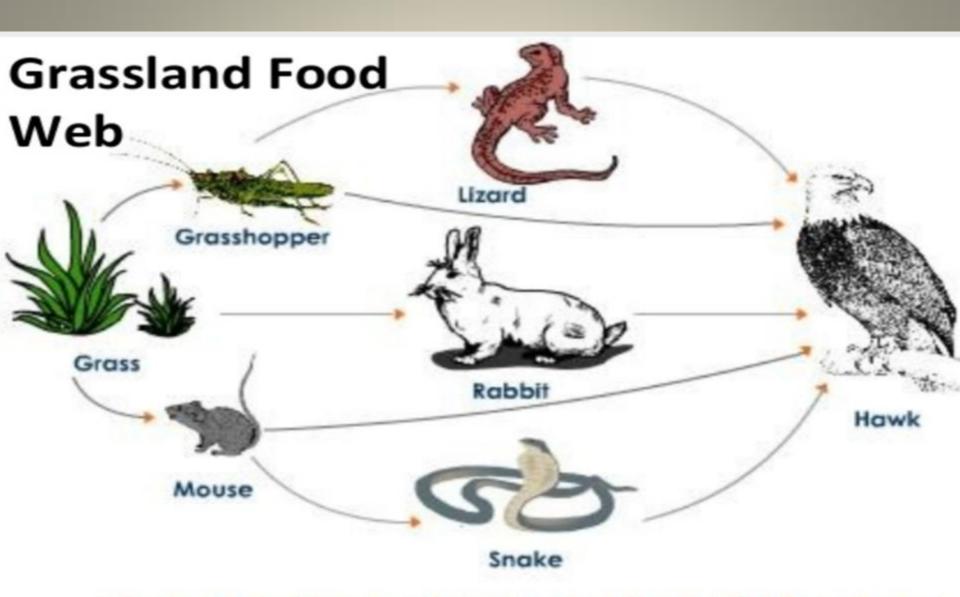
- The knowledge of food chain helps in understanding the feeding relationship as well as the interaction between organism and ecosystem.
- It also help in understanding the mechanism of energy flow and circulation of matter in ecosystem.
- It also helps to understand the movement of toxic substance and the problem associated with biological magnification in the ecosystem.





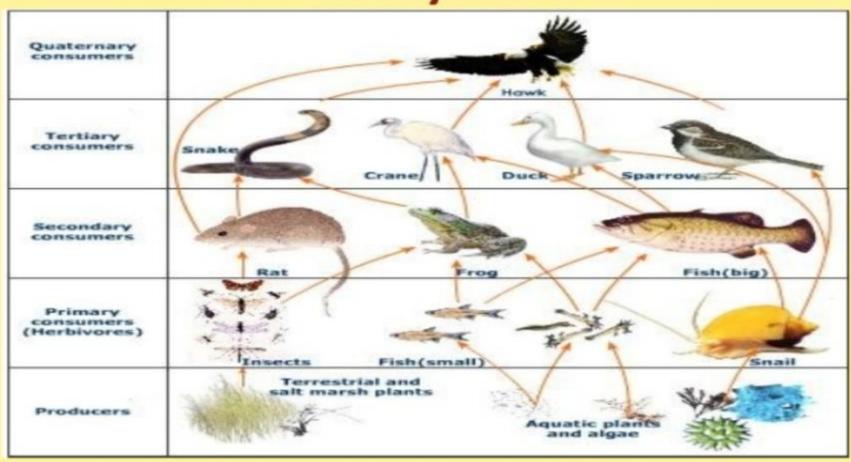






A Food Web in a Grassland Ecosystem With Five Possible Food Chains

Food web in terrestrial and aquatic ecosystem



THANK YOU