

Our Environment

- Ecosystem :- it is a system where biotic (living) and abiotic (non-living) interact with others.

Components of Ecosystem

Biotic (Living things)

- Protists
- Plants
- Animals
- Fungus
- Bacteria

Abiotic (non-living things)

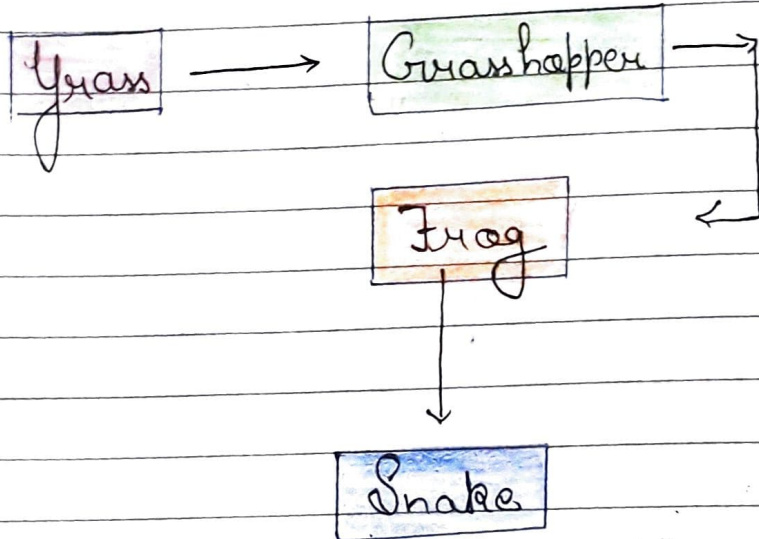
- Water
- Soil
- Light
- Minerals
- Air

- Foodchain :- It is a change which tell us how energy is passing from one organism to another one system to other.

OR

A food chain is a series of organisms that eat one another (so that energy and nutrients flow from one to the next)

Ex - ①



②



fig. Food Chain

Trophic Levels :- Levels of food chain is called trophic levels. Each The energy in a food chain passes from one trophic level to other.

or

Each step or level of the food chain forms a trophic level.

Trophic Level

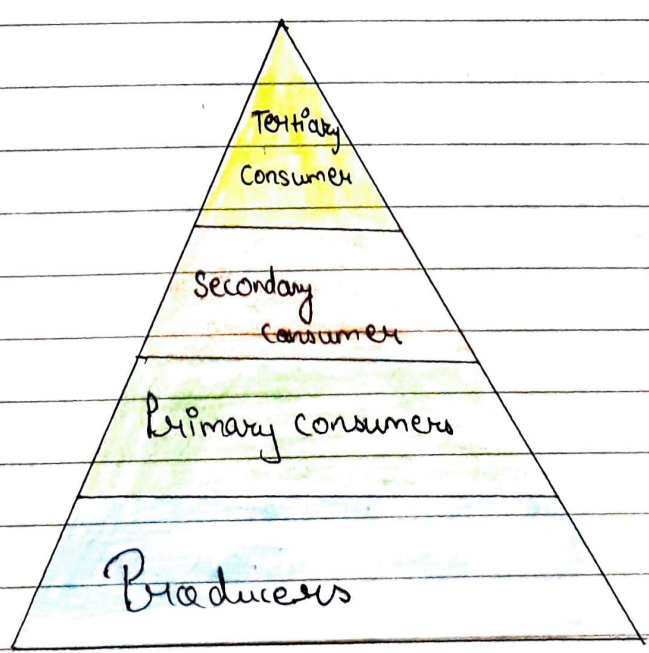
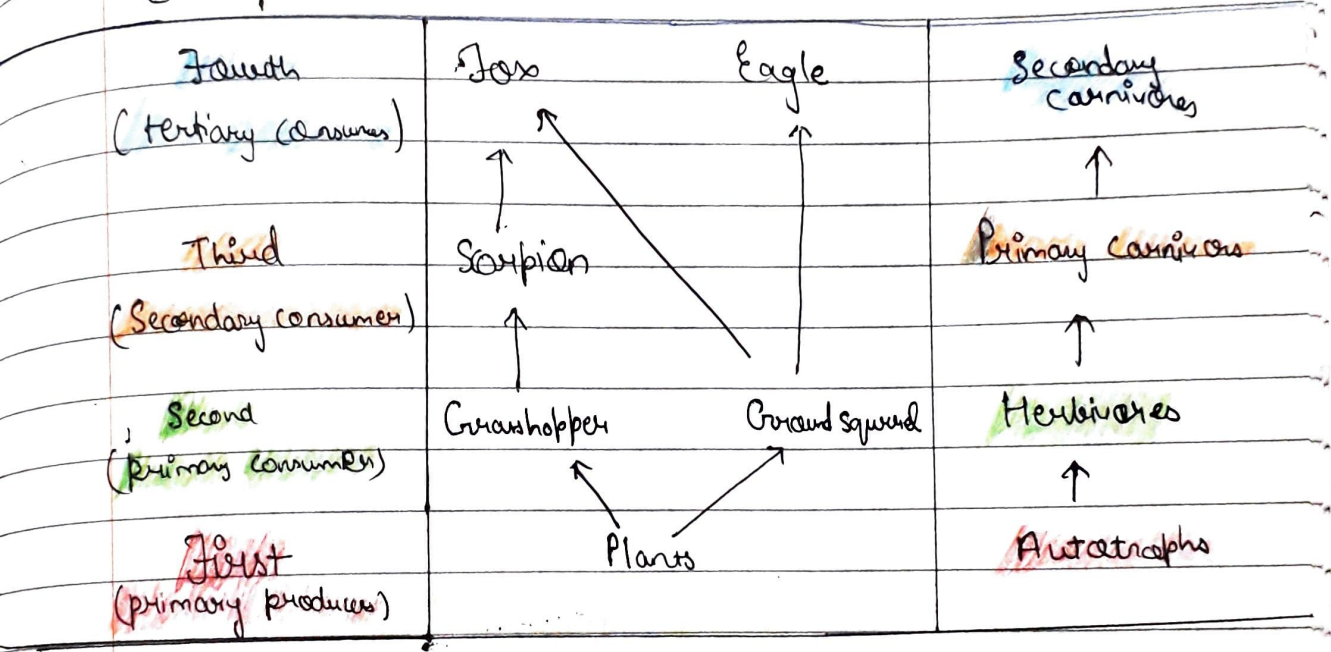


fig. Trophic levels

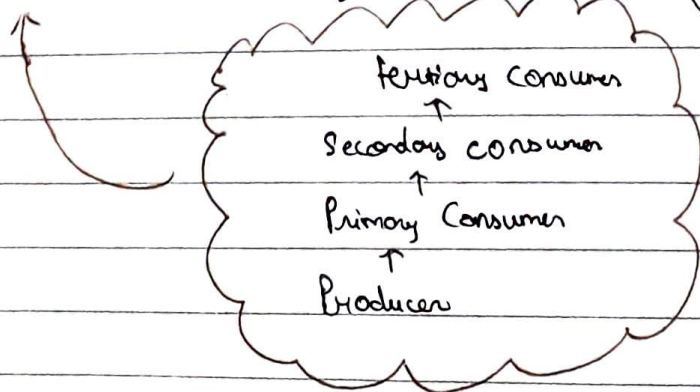
Food web :- Network of food chain is called food web.

or.

Interconnected food chain is food web.

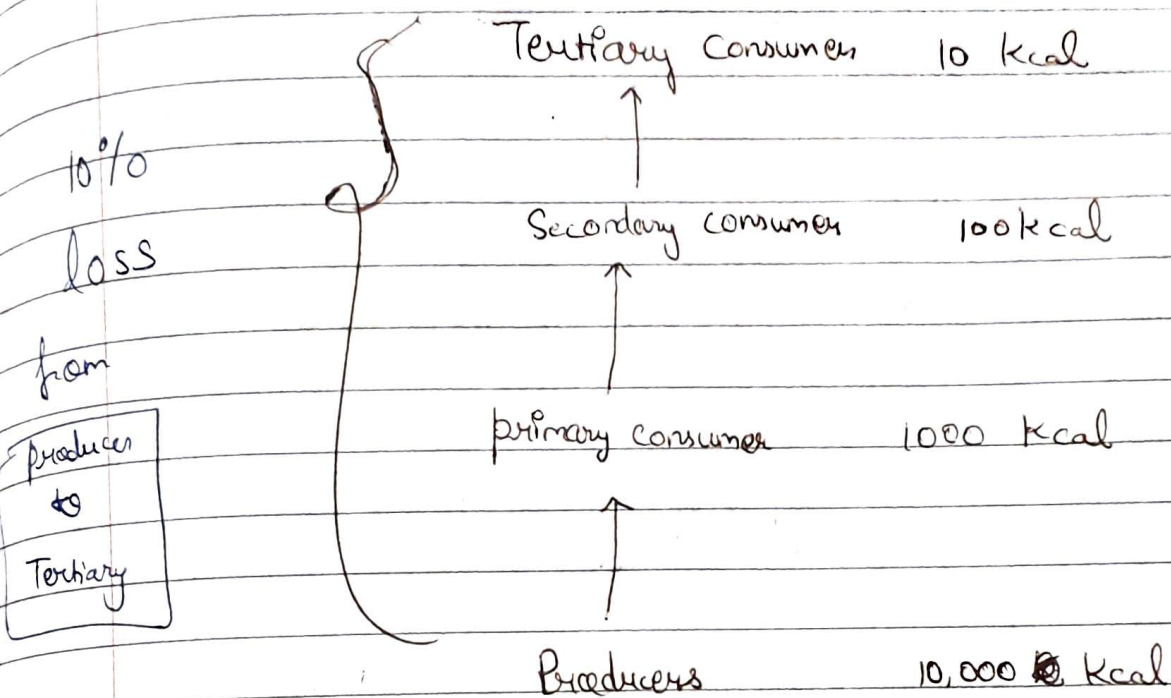
• Sun is the unlimited source of energy.

• Food chain is always unidirectional. (કેમકે Energy એક દિશામાં જ વહે છે)



• The Ten percent law of transfer of energy from one trophic level to next.

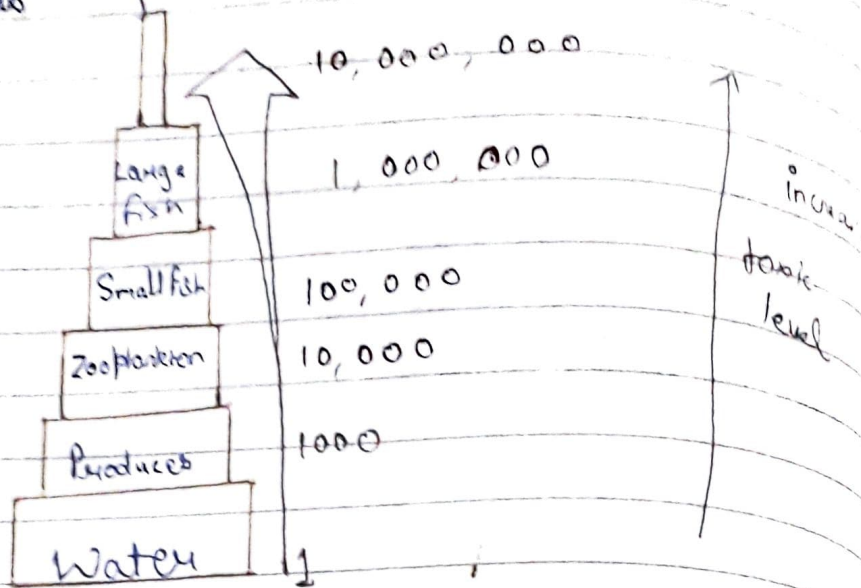
• During the transfer of energy from organic food from one trophic level to the next, only about ten percent of the energy from organic matter is stored as flesh. The rest is lost as heat.



Biomagnification :- Increase in concentration of non-biodegradable toxic chemicals as successive trophic level.

अतः अतः Trophic level पे bi non-biodegradable
toxic chemical ka level badh jata hai

Fish
Energy Bio



Managing the garbage we produce

Types of Solid Waste

~~Biodegradable~~ Biodegradable

Non-biodegradable

5 R's — Reduce, Reuse, Recycle, Recover, Residual

Reduce
Reuse
Recycle
Recover
Residual

Ozone Layer Depletion

- It is the layer of O_3 present in Stratosphere.
- Protects us from harmful UV-rays.
- UV-rays causes skin cancer, Cataract it affect our immunity & decrease the productivity of plant.

Why there was hole in Ozone Layer

⇒ Due to excessive use of CFC's (Chlorofluoro carbon)

- There was a ban on use of CFC
- All country came together and signed an Agreement "Montreal Protocol"