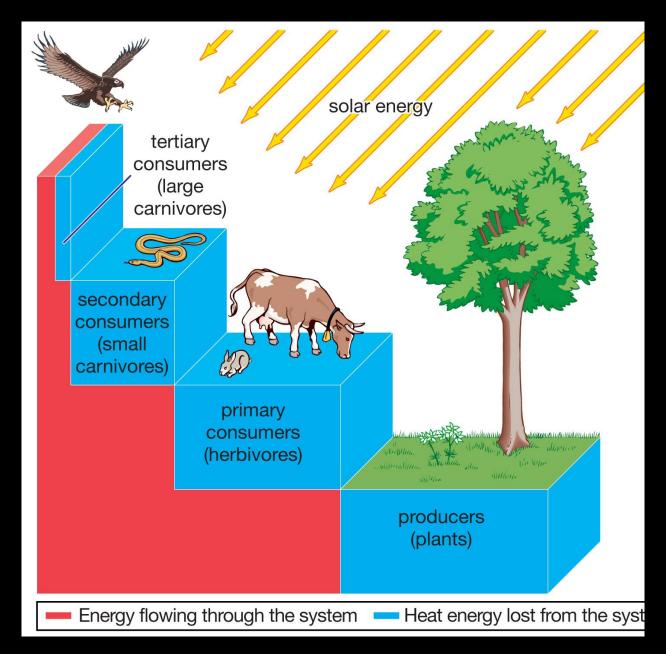
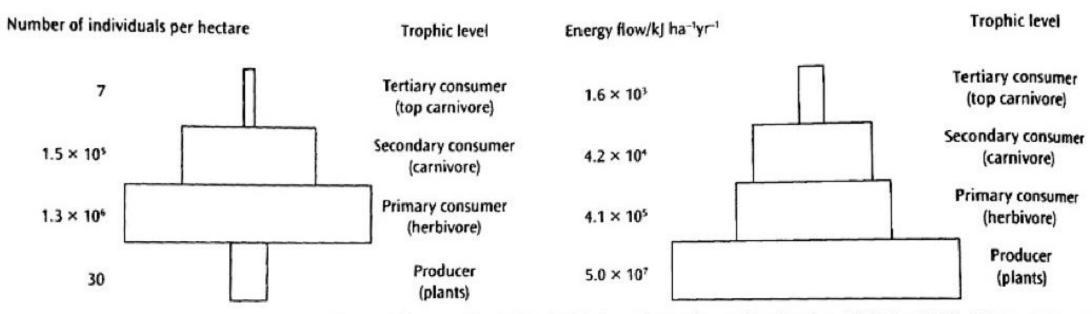
TROPHIC PYRAMIDS FLOW OF ENERGY

- Submitted by DR. MONICA SINGH CHAUHAN (Guest Lecturer)
- PAPER NAME: Plant Ecology and Taxonomy
- SEM: II
- Class: B.Sc. (Life Science)
- DDU College (Department Of Botany) New Delhi



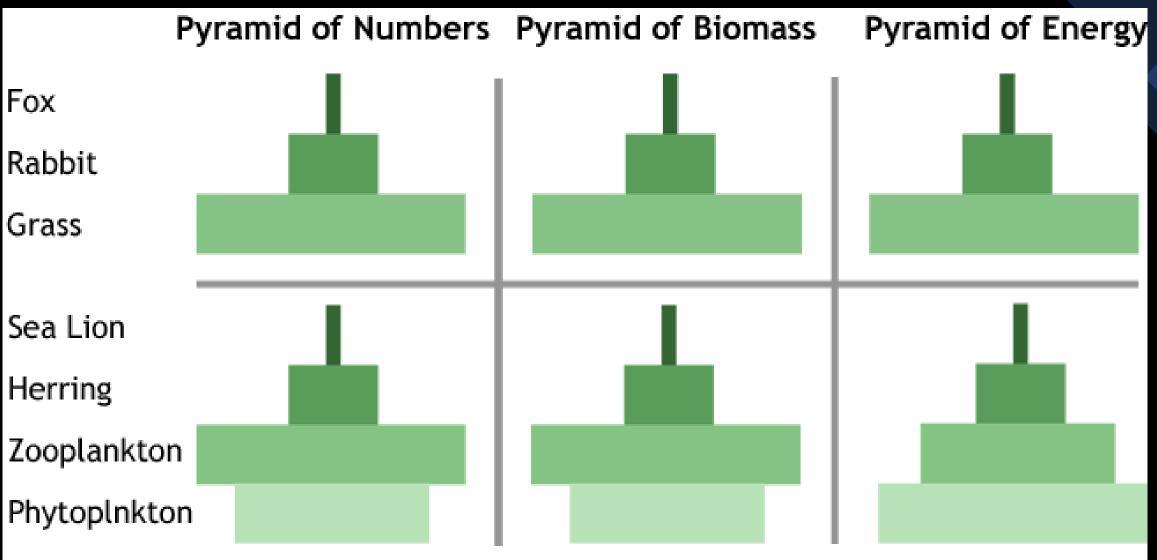


[Source: Chapman, J and Reise M. Ecology: Principles and Application. 1999. Cambridge University Press.]

(d) Evaluate pyramids of numbers as a method of representing the biotic components of an ecosystem.	[2 marks]
(c) State one other type of pyramid used to show trophic levels.	[1 mark]
(b) For an ecosystem you have studied, draw a food chain of at least four named species.	[1 mark]
(a) Explain why the pyramid of numbers in Figure 4(a) has fewer producers than consumers.	[1 mark]

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More Review Questions (Not to Be Turned In)

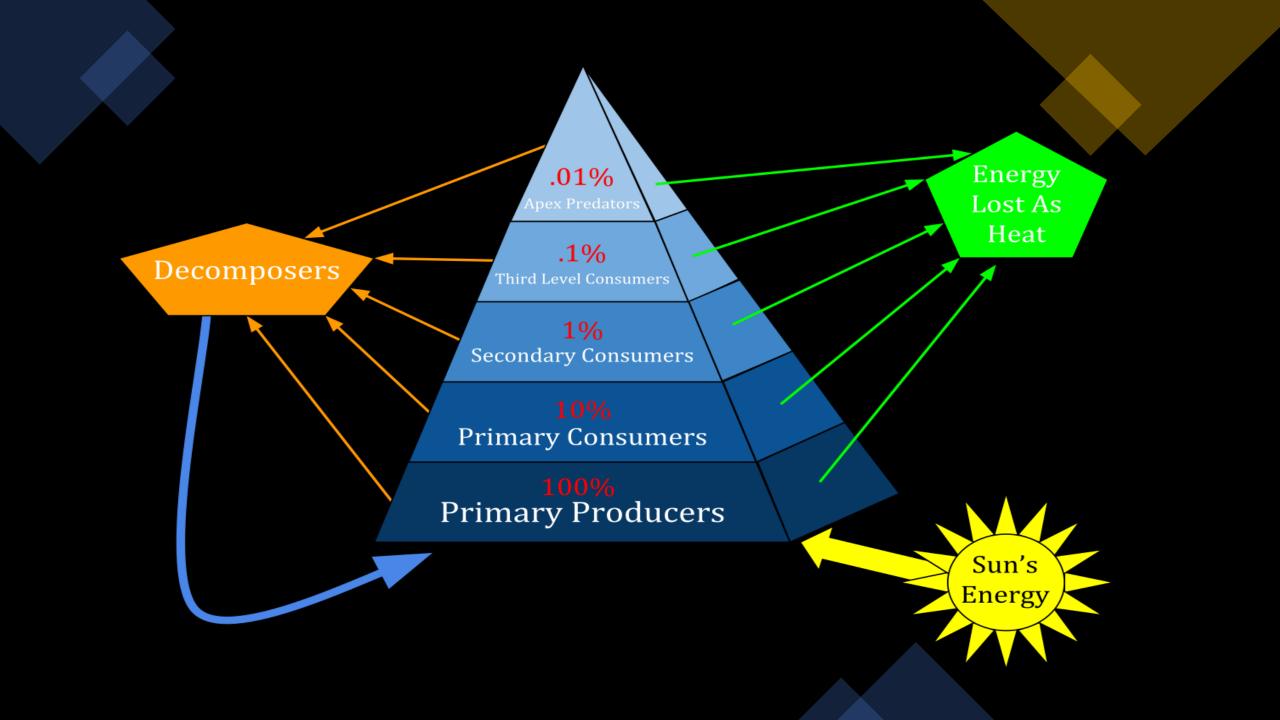
- How is a food web different from a food chain?
- What happens to energy at each link in a food web?
- What type of organism provides the base of a food web?
- What is the difference between a specialist and a generalist?
- What does an energy pyramid show?

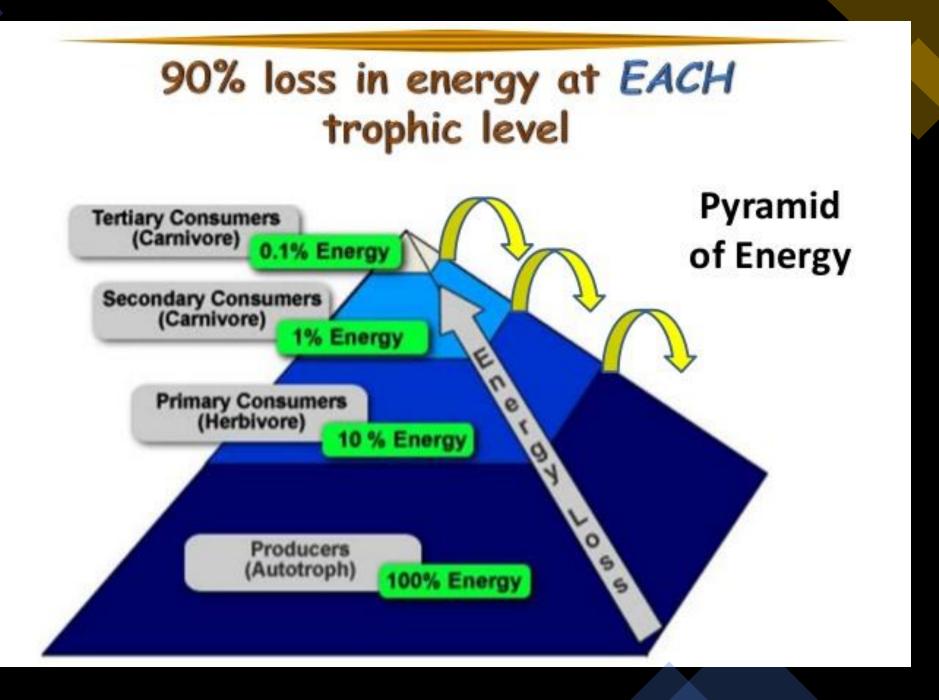
Significance of Food Chain

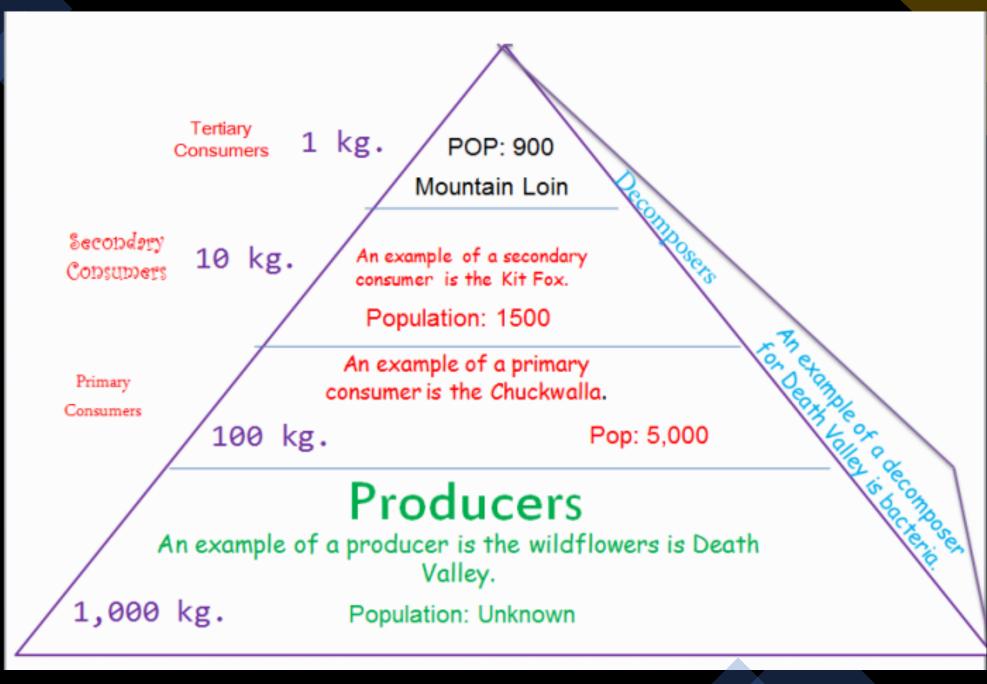
- The knowledge of food chain helps in understanding the feeding relationship as well as the interaction between organism and ecosystem.
- It also help in understanding the mechanism of energy flow and circulation of matter in ecosystem.
- It also helps to understand the movement of toxic substance and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

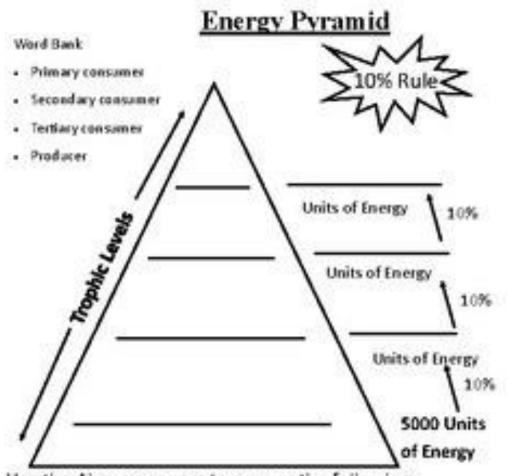
Facts about food chains:

- 10% of the energy value of an organism is transferred to the next level.
- The arrows of both food chains and food webs should point in the direction of the energy flow.









Use the Above answers to answer the following:

Which categories are prey:

- 1.
- 2.

Which categories are predators:

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2.

Significance of Food Web

 Food webs distinguish levels of producers and consumers by identifying and defining the importance of animal relationships and food sources, beginning with primary producers such as plants, insects and herbivores.

 Food webs are important tools in understanding that plants are the foundation of all ecosystems and food chains, sustaining life

by providing nourishment and oxygen needed for survival and reproduction.

The food web provide stability to the ecosystem.

Important facts about Food web

- The base of a food web is occupied mostly by vegetation (producers) and fine organic debris (decomposers).
- Herbivores (primary consumers) and carnivores (secondary consumers) occupy the higher levels.
- Omnivores occupy an intermediate level in the food web.
- Food webs are complicated by the fact that many species feed at various levels.

