Food Webs

Definitions:

A food web is made up of multiple food chains that interact with each other. They show more interactions between a variety of producers.

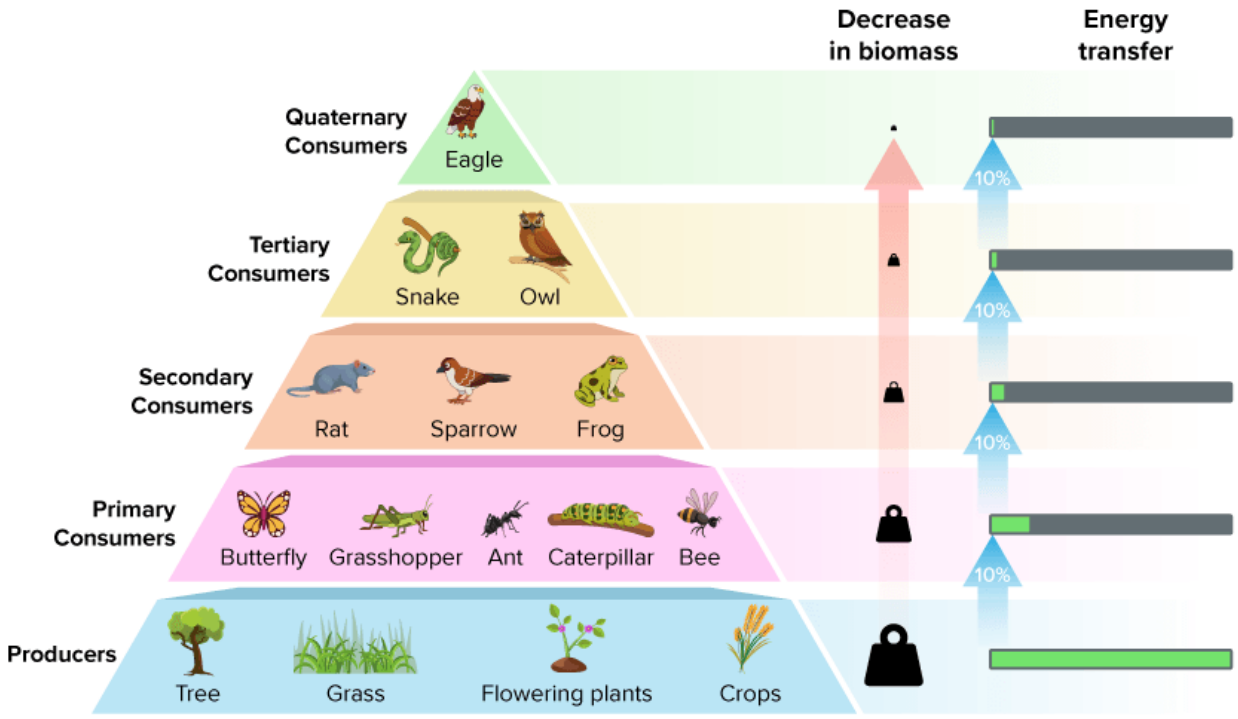
Biodiversity means: The Variety of all types of organisms living in a given area.

Trophic levels: 1. each of several hierachial evels in an ecosystem, consisting of organisms sharing the same function in the food chain and the same nutritional relationship to the primary sources of energy.

Apex Predator: A predator at the top of a food chain, without natural predators of its own

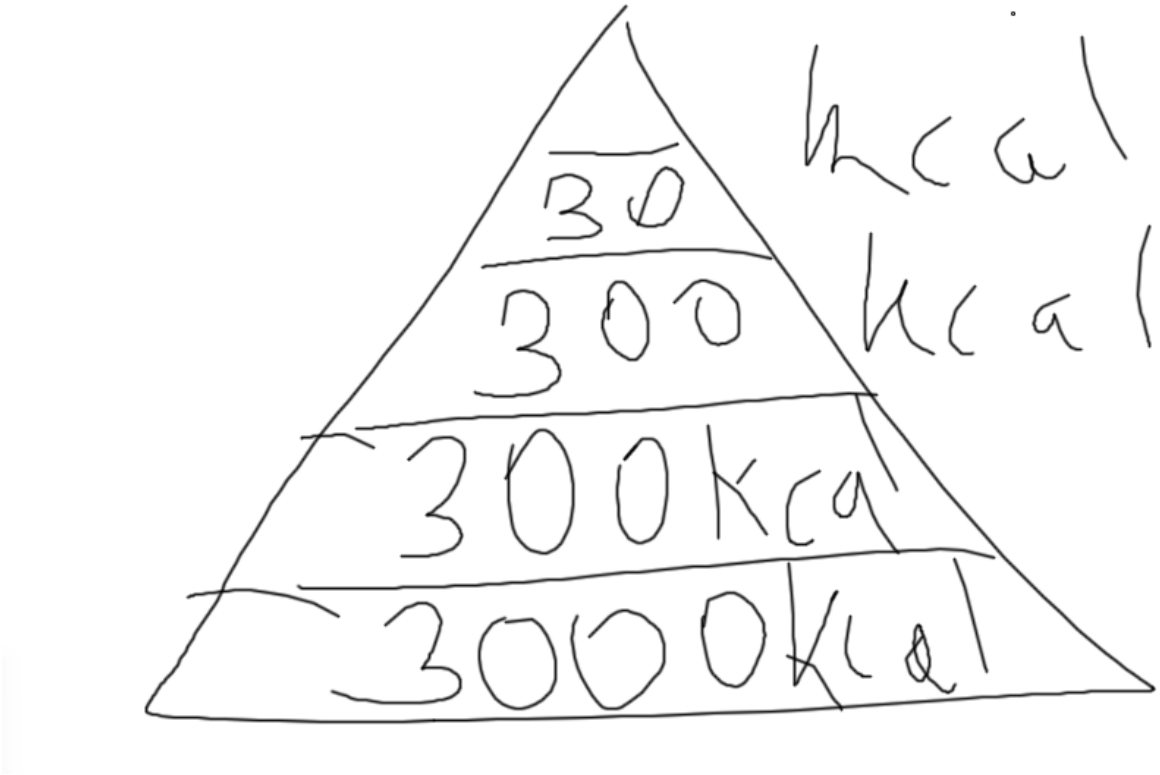
The tropic levels go:

1. Producer
2. Level 1 Consumer
3. Level 2 Consumer
4. Tertiary Consumer
5. Apex Predator / Quatenary Consumer



Producers are autotrophs

Level 1 consumers are herotroph



As the pyramid continues, the increment of energy is 10% of the layer before. The energy gone is from bodies.

Energy is either lost as heat or left to decompose

Goes 100% → 10% → 1% → 0.1% → 0.01%

Energy Change

- Energy is measured in **joules**. If the producer in a particular food chain has 13,500 joules of energy, Calculate:

1. How much energy will be passed on to the *secondary* consumer?
2. How much energy overall has been lost since the beginning
3. What is the most likely reason for this loss

1. It will be 1% of 13,500J = 135J.
2. It is 13,500-135 = 13365J.
3. The most likely reason for this loss is due to decomposition and energy lost from heat.