

Part 2: Energy and Biomass



• Sun energy is continually replenished...









- A Consumer that feeds on plants and chemosynthetic bacteria.
- Eat only producers.
- From:
 - Herba: Latin word for "grass"
 - Vorare: Latin word for "to devour"
- ie: Deer, Bison
- First Order Consumers (C₁); Primary Consumers
- Belong to the Second Trophic Level







Detritivores: A Consumer that feeds on carion, refuse, etc. They do not kill their food. Feed on organisms that are already dead (detritus). Use organic wastes as food sources. AKA: Scavengers

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- From:
 - Detritus: Latin word for "rubbed or worn away"
 - Vorare: Latin word for "to devour"

ie: People

Decomposers:

- Organisms that break down and absorb dead organisms (organic matter) and return nutrients to the soil.
- Organisms that break down complex compounds of dead decaying materials into simpler molecules that can be absorbed.
- · Ie: Bacteria and fungi

- Trophic Levels:
 - Feeding levels or steps in a food chain.
 - The position that an organism occupies in a food chain.



Food Chain: Simple model used to show how matter and energy

• Series of steps in which organisms transfer energy by eating or being eaten.

move through an ecosystem.

- Representation of how nutrients and energy flows from the sun to an autotroph to a heterotroph and finally to decomposers.
- Each organism in a food chain represents a feeding step or trophic level.









- Expresses "all" possible feeding relationships at each trophic level in a community.
- Shows more information about energy flow in an ecosystem than food chains.
- More natural than food chains because most organisms depend on more than one other species for food.





















