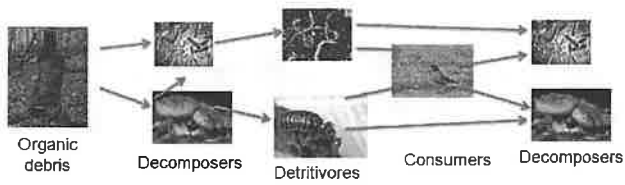


## Detrital Food Web



Starts with chemical energy stored in organic debris or waste from other food webs; continues energy flow from debris directly to decomposers that break down the organic matter, which then becomes food and energy for large and larger consumers, and eventually decomposers.

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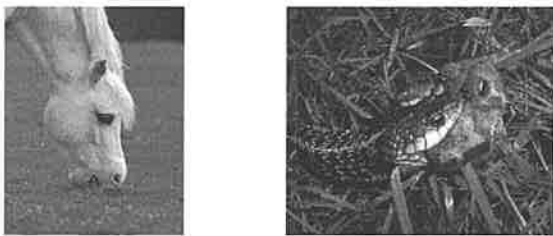
## Producers



Organisms that make complex, energy-containing biomolecules from simple inorganic molecules using energy captured from light or inorganic chemical compounds.

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## Consumers



An organism that must consume other organisms for nutrients.

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## Herbivores



Organisms that consume only plants.

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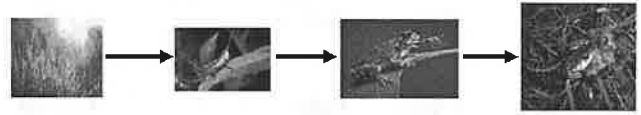
# Energy Flow Through Living Systems

## Picture Vocabulary

Matter and Energy

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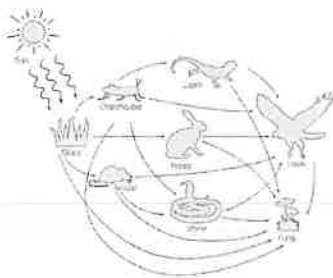
# Food Chain



A single, linear path showing the flow of energy from the sun to producer and through different levels of consumers.

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# Food Web



Overlapping food chains with different pathways for the flow of food energy in an ecosystem.

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# Grazing Food Web



Starts with radiant energy captured by producers (plants) through photosynthesis, and continues with energy flow from producers to consumers and finally to decomposers.

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## Carnivores



Animals that eat other animals.

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## Primary Consumers



An organism that gets their energy by feeding on producers in the food chain.

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## Secondary Consumers



Aphids eat plants, and ladybugs eat aphids.

Animals that eat other animals that eat plants.

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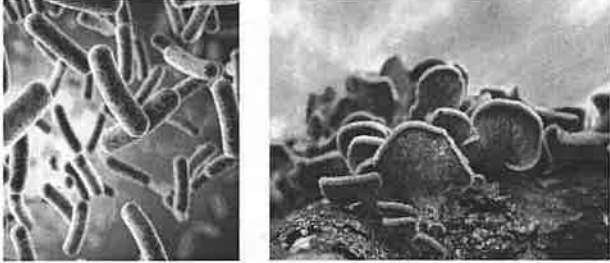
## Tertiary Consumers



Animals that eat secondary consumers.

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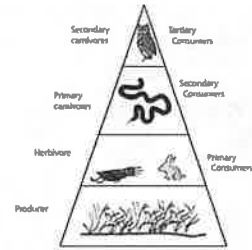
## Decomposers



Organisms such as bacteria and fungi that break down the remains of dead plants and animals without need for internal digestion.

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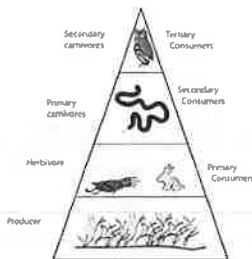
## Trophic Level



The position an organism occupies on the food web.

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## Energy Pyramid



A diagram that shows the trophic levels of organisms in a food web.

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## Ecosystem



A system comprising all the biotic and abiotic factors in an area and all the interactions among them.

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