

Sci 10 Ecology Section 1.1 "Silence of the Frogs"

An ECOSYSTEM is a term used to describe the relationships among the species living in the environment and the relationships between the living (biotic) and the non-living (abiotic) factors.

Ex: forest, desert, ocean, tundra, acetic tundra, "biosphere", Amphibians, on both sides, food.

A food chain is a step by step sequence linking organisms that feed on each other, starting with a food source (producer) and continuing with other living things that feed on the plants and on each other (consumers).

Herbivores: animals that eat plants only. (moose, rabbits, deer)

Carnivores: animals that eat other animals only. (lynx, sharks) (osprey, bald eagle)

Omnivores: animals that eat both plants & animals. (black bear, skunk, porcupine)

Detritus: waste from plants & animals including their dead remains. It provides nutrients to the soil.

Decomposers: organisms that break down detritus into nutrients for their own use and for use by plants to grow and photosynthesize.

Photosynthesis:

$$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow[\text{catalyst}]{\text{sunlight}} 6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6$$

carbon dioxide + water → oxygen + glucose

May 17-8:30 AM