

AP Biology

Chapter 54 notes Ecosystems

Ecosystem ecology emphasizes energy flow and chemical recycling

An ecosystem consists of all the organisms in a community and all the abiotic factors with which they interact

The laws of physics and chemistry apply, especially energy flow
Energy is conserved but degraded to heat during the ecosystem processes

Energy and nutrients pass from primary producers (autotrophs) to primary consumers (herbivores) to secondary consumers (carnivores). **Energy flows through an ecosystem, entering as light and exiting as heat. Nutrients cycle within the ecosystem.**

Decomposition connects all trophic levels. Detritivores, mainly bacteria and fungi recycle essential chemical elements by decomposing organic matter and returning the elements to inorganic reservoirs (soil, water, air)

Ecosystem Energy budgets:

The energy produced through photosynthesis is a tiny fraction of the solar radiation reaching the Earth, but primary production sets the spending limit for the global energy budget.

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