

Ecology

All living things require a supporting environment including other living things. No organism lives in isolation

What evidence do you have that living things require each other?

What is Ecology?

What do ecologists do?

Biotic vs. Abiotic Factors

Biotic factors

Abiotic factors

Oxygen is the only abiotic factor that allows life to survive in this classroom.

Levels of organization in Ecology

- organism
- population
- biological community
- ecosystem
- biome
- biosphere

Population

A group of organisms of the _____ species that interbreed and live in the same place at the same time.

Ex.

Biological Community

A group of interacting _____ that live in the same area at the same time

Ex.

Ecosystem

A _____ and all of the _____ factors that affect it.

Ex.

Biome

A large group of _____ that share the same _____ and have similar communities

Ex.

Biosphere

The portion of earth that supports life

How big is it?

Habitat vs. Niche

Habitat →

Niche →

Relationships among organisms

Competition

Predation

Symbiosis

Mutualism

Parasitism

Commensalism

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