

Ecology Terms

• Ecology:

- The branch of biology dealing with the study of relationships of livings and their environments.
- The scientific study of interrelationships between living and nonliving parts of the world.
- From Greek "oikos" and "eco" meaning household or habitat.

Ecology Terms

• Biosphere:

- The thin zone of Earth that supports life.
- Broken into biomes (groups of ecosystems.)
- The 8 km above the Earth's surface to 11 km below the Earth's surface.
- The atmosphere to the bottom of the ocean.

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Ecology Terms.

Riome

 A group of ecosystems having a similar climate and similar dominant communities.

• Ecosystem:

- All the living and nonliving parts of the environment.
- All ecosystems are able to support themselves.
- Interactions between biotic factors and abiotic factors of communities.

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Ecology Terms.

· Ecosystems factors:

- Biotic factors: living organisms in an ecosystem.
- Abiotic factors: nonliving parts of an ecosystem; what makes up the physical environment.
 - ie: air, air currents, temperature, moisture, water, sunlight, rock, soil ...

Ecology Terms:

• Ecosystems are one of two types:

- Terrestrial Ecosystems: Located on land
- Aquatic Ecosystems: Located in water
 - freshwater
 - saltwater (aka marine) accounts for 75% of Earth's surface)

Ecology Terms

• Communities:

- All of the organisms living in the same area/location.
- Made up of populations.

• Populations:

- All of the organisms of the same species living in the same area/location and interbreed.
- Compete with one another for food, water, mates, etc.

Ecology Term.

• Species:

- A group of organisms sharing very similar characteristics and can breed to produce fertile offspring.
- Organisms that look alike and can reproduce among themselves.

More terms:

• Habitat:

- The place/location where an organism lives out its life
- Provides food, water, and shelter

• Niche:

- An organism's role in a community
- Everything an organism does and needs in a habitat.
- Also... food, space, and other conditions for organisms reproduction and survival and how a species affects its environment.

Cycles

- Cycles: Allow substances to be reused; allow substances to pass through biotic and abiotic factors as they go through a cyclical pathway.
- Important Abiotic Cycles:
 - Oxygen/Carbon dioxide cycle
 - Water Cycle
 - Nitrogen Cycle
 - Phosphorus Cycle