

# Principles of Ecology

Write the following vocabulary words and definitions into your science notebook, number them, then show your teacher to receive credit.

1. Ecology - scientific study of all the interrelationships between organisms and their environment.
2. Biosphere - relatively thin layer of Earth and its atmosphere that supports life.
3. Biotic factor - any living factor in an organism's environment.
4. Abiotic factor - any nonliving factor in an organism's environment, such as soil, water temperature, and light availability.
5. Population - group of organisms of the same species that occupy the same geographic place at the same time.
6. Biological community - all the interacting populations of different species that live in the same geographic location at the same time.
7. Ecosystem - biological community and all the nonliving factors that affect it.
8. Biome - large group of ecosystems that share the same climate and have similar types of communities.
9. Habitat - physical area in which an organism lives.
10. Niche - role, or position, of an organism in its environment.
11. Predation - act of one organism feeding on another organism.
12. Symbiosis - close mutualistic, parasitic, or commensal association between two or more species that live together.
13. Mutualism - symbiotic relationship in which both organisms benefit.
14. Commensalism - symbiotic relationship in which one organism benefits and the other organism is neither helped nor harmed.
15. Parasitism - symbiotic relationship in which one organism benefits at the expense of another organism.
16. Autotroph - organism that captures energy from sunlight or inorganic substances to produce its own food; provides the foundation of the food supply for other organisms; also called producer.
17. Heterotroph - organism that cannot make its own food and gets its nutrients and energy requirements by feeding on other organisms; also called a consumer.
18. Herbivore - heterotroph that eats only plants.
19. Carnivore - heterotroph that preys on other heterotrophs.
20. Omnivore - heterotroph that consumes both plants and animals.
21. Detritivore - heterotroph that decomposes organic material and returns the nutrients to soil, air, and water, making the nutrients available to other organisms.
22. Trophic level - each step in a food chain or food web.
23. Food chain - simplified model that shows a single path for energy flow through an ecosystem.
24. Food web - model that shows many interconnected food chains and pathways in which energy and matter flow through an ecosystem.
25. Biomass - total mass of living matter at each trophic level.
26. Matter - anything that takes up space and has mass.
27. Nutrient - chemical substance that living organisms obtain from the environment to carry out life processes and sustain life.
28. Biogeochemical cycle - exchange of matter through the biosphere involving living organisms, chemical processes, and geological processes.
29. Nitrogen fixation - process in which nitrogen gas is captured and converted into a form plants can use.
30. Denitrification - process in which fixed nitrogen compounds are converted back into nitrogen gas and returned to the atmosphere.

# Biology Vocabulary Ecological Principles Vocabulary

**Daniela Niemeyer**



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