

Chapter 2

Principles of Ecology

Reinforcement and Study Guide

Section 2.1 Organisms and Their Environment

In your textbook, read about what ecology is and about aspects of ecological study.

Use each of the terms below just once to complete the passage.

ecology
humans

biotic factors
organisms

nonliving
soil

environments
biosphere

atmosphere
abiotic factors

Living organisms in our world are connected to other **(1)** _____ in a variety of ways. The branch of biology called **(2)** _____ is the scientific study of interactions between organisms and their **(3)** _____, including relationships between living and **(4)** _____ things.

All living things on Earth can be found in the **(5)** _____, the portion of Earth that supports life. It extends from high in the **(6)** _____ to the bottom of the oceans. Many different environments can be found in the biosphere. All living organisms found in an environment are called **(7)** _____. Nonliving parts of an environment are called **(8)** _____. For example, whales, trees, and **(9)** _____ are biotic factors. Ocean currents, temperature, and **(10)** _____ are abiotic factors.

In your textbook, read about levels of organization in ecology.

For each item in Column A, write the letter of the matching item in Column B.

Column A

- _____ **11.** A group of organisms of one species that interbreed and live in the same place at the same time
- _____ **12.** A collection of interacting populations
- _____ **13.** Interacting populations and abiotic factors in a community
- _____ **14.** Increases when resources are scarce
- _____ **15.** A terrestrial ecosystem

Column B

- a.** community
- b.** competition
- c.** forest
- d.** population
- e.** ecosystem

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