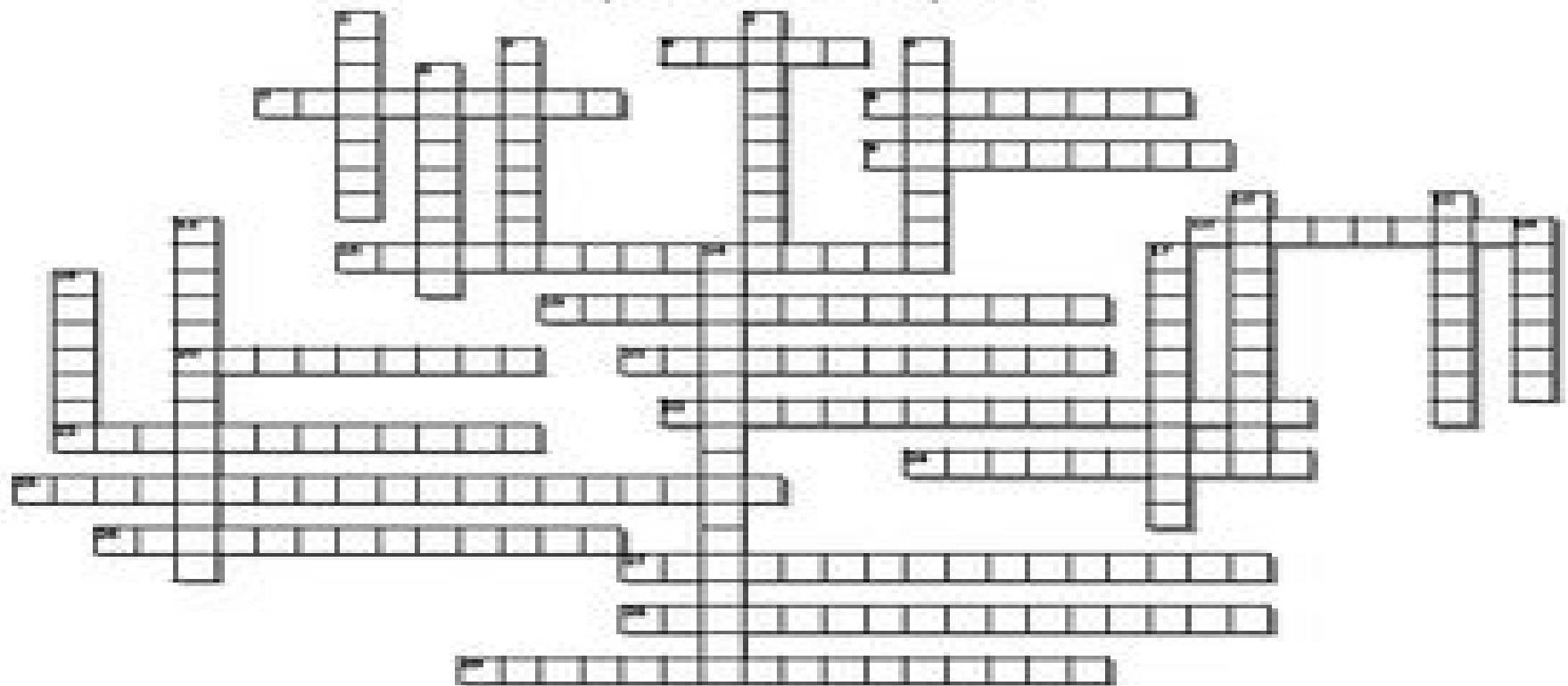


## Chapter 3 - The Biosphere



## ACROSS

4. A group of ecosystems that share similar climates and typical organisms
7. Organism that obtains energy by eating animals
8. Organism that obtains energy by eating both plants and animals
9. Organism that is able to capture energy from sunlight or chemicals and use it to produce its own food from inorganic compounds; also called a producer
11. Organism that obtains energy by eating only plants
12. Pyramids of energy show the relative amount of energy available at each trophic level of a food chain or food web.
16. Process used by plants and other autotrophs to capture light energy and use it to power chemical reactions that produce sugars
20. Animal that consumes the carcasses of other animals
21. Each step in a food chain or food web
22. Process of converting nitrogen gas into nitrogen compounds that plants can absorb and use
23. Any living part of the environment with which an organism might interact
24. Organism that breaks down and obtains energy from dead organic matter
25. Process in which elements, chemical compounds, and other forms of matter are passed from one organism to another and from one part of the biosphere to another
26. Physical, chemical, and biological factors in an ecosystem
27. Pyramids of biomass illustrate the relative amount of living organic matter available at each trophic level in an

## ecosystem.

28. Factor that causes population growth to decrease
29. Pyramids of numbers show the relative number of individual organisms at each trophic level in an ecosystem.

## DOWN

1. Chemical substance that an organism needs to sustain life
2. Group of individuals of the same species that live in the same area
3. All the organisms that live in a place, together with their nonliving environment
5. Assemblage of different populations that live together in a defined area
6. Part of Earth in which life exists including land, water, and air or atmosphere
10. Organism that feeds on plant and animal remains and other dead matter
13. Series of stages in an ecosystem in which organisms transfer energy by eating and being eaten
14. Process in which chemical energy is used to produce carbohydrates
17. Scientific study of interactions among organisms and between organisms and their environment
18. Illustration of the relative amounts of energy or matter contained within each trophic level in a given food chain or food web
19. Organism that obtains food by consuming other living things; also called a consumer
20. Network of complex interactions formed by the feeding relationships among the various organisms in an ecosystem

# Chapter 3 Biosphere Vocabulary Review Answer Key

**Robert V. Rohli, Anthony J. Vega**



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