

## Chapter 3 The Biosphere

### Vocabulary Review

**Matching** *In the space provided, write the letter of the definition that best matches each term.*

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|--------------------------|--|
| _____ 1. biosphere       | a. collection of different populations that live together in an area               |
| _____ 2. community       | b. consumer that feeds on plant and animal remains and other dead matter           |
| _____ 3. autotroph       | c. process in which water evaporates from the leaves of plants                     |
| _____ 4. chemosynthesis  | d. combined parts of the planet in which all life exists                           |
| _____ 5. detritivore     | e. each step in a food chain or food web   |
| _____ 6. biomass         | f. total amount of living tissue within a trophic level                            |
| _____ 7. transpiration   | g. organism that can capture energy and use it to produce food                     |
| _____ 8. denitrification | h. group of ecosystems that have the same climate and similar dominant communities |
| _____ 9. biome           | i. process in which organisms use chemical energy to produce carbohydrates         |
| _____ 10. trophic level  | j. process in which bacteria convert nitrates into nitrogen gas                    |

**True or False** *Determine whether each statement is true or false. If it is true, write true in the space provided. If the statement is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 11. A(An) species is a collection of all the organisms that live in a particular place, together with their physical environment.
- \_\_\_\_\_ 12. The process in which autotrophs use light energy to make carbohydrates is called nitrogen fixation.
- \_\_\_\_\_ 13. Heterotrophs that eat both plants and animals are referred to as carnivores.
- \_\_\_\_\_ 14. A(An) food web links together all the food chains in an ecosystem.
- \_\_\_\_\_ 15. The rate at which organic matter is created by producers is called the limiting nutrient of an ecosystem.
- \_\_\_\_\_ 16. Ecology is the scientific study of interactions among organisms and between organisms and their environment.
- \_\_\_\_\_ 17. A(An) community is a group of individuals that belong to the same species and live in the same area.
- \_\_\_\_\_ 18. Autotrophs are also called consumers.
- \_\_\_\_\_ 19. Organisms that break down organic matter are called herbivores.
- \_\_\_\_\_ 20. The process in which water changes from a liquid to a gas is called evaporation.