

## Assessment

# Chapter Test

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## Ecosystems

In the space provided, write *T* if the statement is true or *F* if it is false.

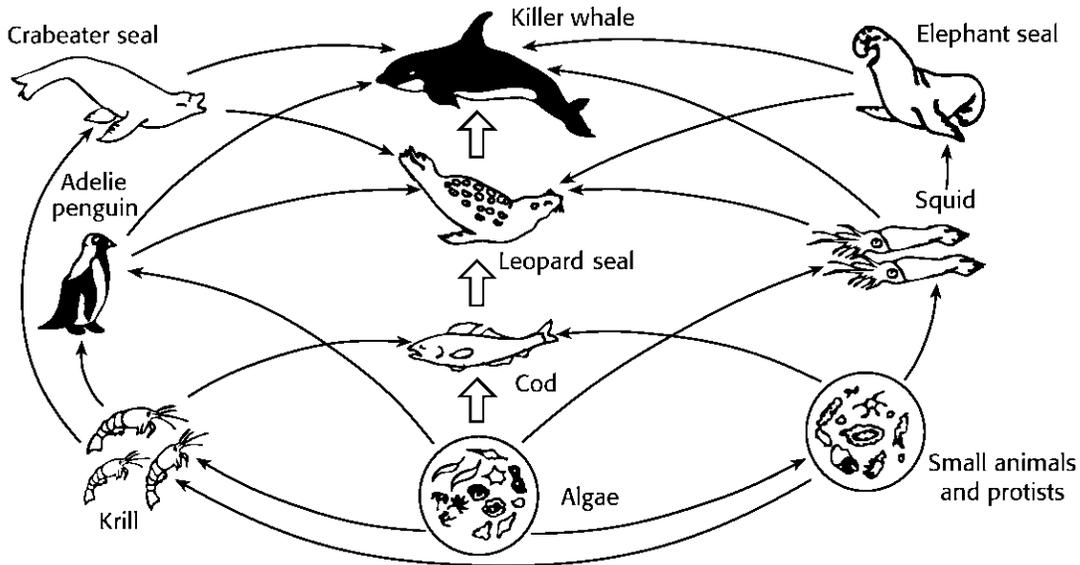
- \_\_\_\_\_ 1. All living organisms and their physical environment make up an ecosystem.
- \_\_\_\_\_ 2. Producers are at the bottom of energy pyramids.
- \_\_\_\_\_ 3. Grizzly bears, snakes, and whales can be members of the same ecosystem.
- \_\_\_\_\_ 4. An example of a material that is recycled in an ecosystem is carbon dioxide.
- \_\_\_\_\_ 5. The number of different species living in an ecosystem is its energy pyramid.
- \_\_\_\_\_ 6. In succession, the first plants to appear are called pioneer plants.

In the space provided, write the letter of the term or phrase that best completes each sentence or answers each question.

- \_\_\_\_\_ 7. Organisms living in a community and all the physical parts of its environment make up a(n)  
a. ecosystem.    b. habitat.    c. food chain.
- \_\_\_\_\_ 8. The most important abiotic factor for the organisms in an ecosystem is  
a. sunlight.    b. weather.    c. water.
- \_\_\_\_\_ 9. Animals that feed on plants are at least in the  
a. first trophic level.  
b. second trophic level.  
c. third trophic level.
- \_\_\_\_\_ 10. The many different species that live together in a habitat are called a(n)  
a. ecology.    b. food chain.    c. community.
- \_\_\_\_\_ 11. An organism that gets energy from organic wastes and dead bodies is a(n)  
a. omnivore.    b. producer.    c. decomposer.
- \_\_\_\_\_ 12. The number of trophic levels in an energy pyramid is  
a. seldom more than four.  
b. always exactly four.  
c. never less than four.

Chapter Test *continued*

Questions 13–15 refer to the figure below, which shows the feeding relationships in an Antarctic ecosystem. Circle the term that best completes each sentence.



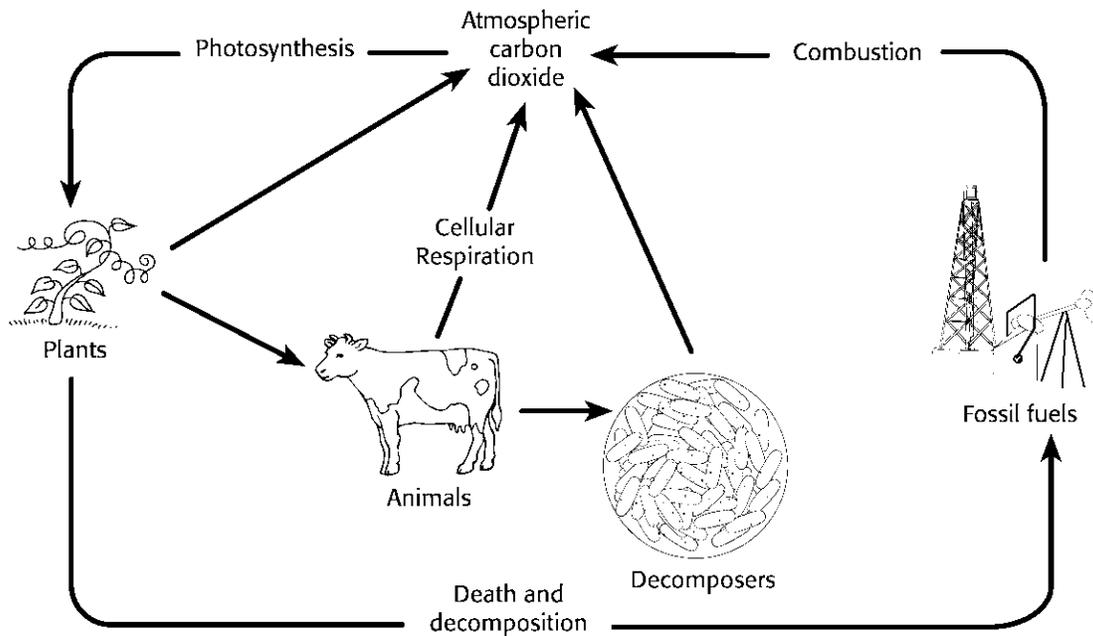
13. The figure above represents a (trophic net, food chain, or food web).
14. The algae are (producers, consumers, or parasites).
15. Leopard seals are (producers, herbivores, or carnivores).

Match the words on the left with the statements on the right.

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| <p>_____ 16. consumers</p> <p>_____ 17. energy pyramid</p> <p>_____ 18. transpiration</p> <p>_____ 19. succession</p> <p>_____ 20. pioneer species</p> | <p>a. first organisms to live in a new habitat that are small, fast-growing plants</p> <p>b. organisms that get energy by consuming plants or other organisms</p> <p>c. a triangular shaped model that uses blocks to represent the amount of energy in each trophic level</p> <p>d. the evaporation of water from the leaves of plants</p> <p>e. the regular replacement of one kind of community for another at a single place over time</p> |
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Chapter Test *continued*

Questions 21–25 refer to the figure below, which shows the carbon cycle. In the space provided, write the letter of the term or phrase that best completes each sentence or answers each question.



- \_\_\_\_\_ 21. Which process takes carbon dioxide from the atmosphere?  
 a. photosynthesis    b. decomposition    c. combustion
- \_\_\_\_\_ 22. Which process returns carbon dioxide to the atmosphere?  
 a. combustion    b. decomposition    c. Both (a) and (b)
- \_\_\_\_\_ 23. Which process contributes to the formation of fossil fuels?  
 a. combustion    b. decomposition    c. Both (a) and (b)
- \_\_\_\_\_ 24. How many of the pathways of the carbon cycle shown in the diagram include photosynthesis?  
 a. all of them    b. only one    c. two
- \_\_\_\_\_ 25. How do animals contribute carbon dioxide to the atmosphere?  
 a. by cellular respiration  
 b. by their decomposition  
 c. Both (a) and (b)