

Assessment

Quiz**Section: Energy Flow in Ecosystems****MATCHING**

Write the letter of the term or phrase that best matches the description.

- | | |
|---|--------------------------------|
| _____ 1. an organism that makes its own food | a. cellular respiration |
| _____ 2. the process of breaking down food to yield energy | b. decomposer |
| _____ 3. organisms that get their energy by eating other organisms | c. producer |
| _____ 4. the process in which plants make sugar molecules from sunlight | d. consumer |
| _____ 5. consumers that get their food by breaking down dead organisms | e. photosynthesis |
| _____ 6. the many feeding relationships possible in an ecosystem | f. food web |

MULTIPLE CHOICE

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

- | | |
|---|---|
| _____ 7. What term is used to describe a linear sequence in which energy is transferred from one organism to the next?
a. food web
b. food chain
c. trophic level
d. energy pyramid | _____ 9. What is the ultimate source of energy for almost all organisms except those living deep in the ocean near a thermal vent?
a. producers
b. consumers
c. the sun
d. bacteria |
| _____ 8. Which organism is likely to be in the bottom trophic level in a food chain?
a. leopard seal
b. alga
c. krill
d. killer whale | _____ 10. What are organisms that eat both plants and animals called?
a. herbivores
b. carnivores
c. omnivores
d. autotrophs |

final stage of succession, usually consisting of large hardwood trees; pioneer species: the first plants and algae to grow on an abandoned piece of land.

- 5. 3
- 6. 8
- 7. 2
- 8. 1
- 9. 5
- 10. 6
- 11. 4
- 12. 7
- 13. Taller plants grow and block out the sunlight. They grow larger roots and take more water from the soil.
- 14. The field returns to a climax community similar to the one that existed before the farmer cleared the field.

Map Skills

- 1. developed regions
- 2. United States; Australia
- 3. Answers may vary but should mention increased industry, number of automobiles, polluting technology, etc.
- 4. Answers may vary but should suggest a possible lack of population.

Quiz

SECTION: ENERGY FLOW IN ECOSYSTEMS

- | Matching | Multiple Choice |
|----------|-----------------|
| 1. c | 7. b |
| 2. a | 8. b |
| 3. d | 9. c |
| 4. e | 10. c |
| 5. b | |
| 6. f | |

SECTION: THE CYCLING OF MATERIALS

- | Matching | Multiple Choice |
|----------|-----------------|
| 1. h | 5. f |
| 2. c | 6. e |
| 3. a | 7. d |
| 4. a | 8. b |

Multiple Choice

- 9. a
- 10. a

SECTION: HOW ECOSYSTEMS CHANGE

- | Matching | Multiple Choice |
|----------|-----------------|
| 1. c | 7. d |
| 2. d | 8. a |
| 3. e | 9. b |
| 4. b | 10. a |
| 5. f | |
| 6. a | |

Chapter Test General

MATCHING

- | | |
|------|------|
| 1. c | 4. f |
| 2. d | 5. a |
| 3. e | 6. b |

MULTIPLE CHOICE

- | | |
|-------|-------|
| 7. c | 14. d |
| 8. b | 15. a |
| 9. d | 16. b |
| 10. b | 17. d |
| 11. a | 18. a |
| 12. a | 19. a |
| 13. a | 20. b |

Chapter Test Advanced

MULTIPLE CHOICE

- 1. d
- 2. c
- 3. d
- 4. a
- 5. a

COMPLETION

- 6. photosynthesis
- 7. hydrogen sulfide
- 8. decomposers
- 9. cellular respiration
- 10. legumes
- 11. fire
- 12. primary

SHORT ANSWER

- 13. Accept any reasonable answer. Sample answer: Owls eat mice and mice eat grain. Both owls and mice depend on the plants that produce grain for their energy source. Grain is the producer in this scenario.
- 14. A pyramid is the perfect shape to represent energy levels. Because the base is the largest part of the pyramid, it is used to show where the most energy