

Directed Reading B

Section: Living Things Need Energy

Circle the letter of the best answer for each question.

1. What do all living things need to survive?
 - a. plants
 - b. animals
 - c. organisms
 - d. energy

THE ENERGY CONNECTION

2. What are the three groups of living things?
 - a. abiotic, biotic, neutral
 - b. producers, consumers, decomposers
 - c. energy, no energy, variable energy
 - d. grasslands, prairies, water

Producers

Read the words in the box. Read the sentences. **Fill in each blank** with the word that best completes the sentence.

algae	producers	photosynthesis
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3. Organisms that use sunlight to make food are called _____.
4. The process of making sunlight into food is called _____.
5. Plants, _____, and some bacteria are producers.

Directed Reading B *continued*

Consumers

Read the description. Then, draw a line from the dot next to each description to the matching word.

- | | | |
|---|---|--------------|
| 6. a consumer that eats only plants | ● | a. herbivore |
| 7. a consumer that eats only animals | ● | b. scavenger |
| 8. a consumer that eats both plants and animals | ● | c. carnivore |
| 9. an omnivore that eats dead things | ● | d. omnivore |

Decomposers

Circle the letter of the best answer for each question.

10. What are organisms that get energy by breaking down dead organisms called?
- a. materials
 - b. carbon dioxide
 - c. decomposers
 - d. water
11. What do decomposers produce?
- a. water and carbon dioxide
 - b. an ecosystem
 - c. food from sunlight
 - d. consumers

Directed Reading B *continued*

Food Chains and Food Webs

Circle the letter of the best answer for each question.

12. What kind of diagram shows how energy flows from one organism to another?
- a. producer
 - b. ecology
 - c. consumer
 - d. food chain
13. How is a food web different from a food chain?
- a. A food web is smaller.
 - b. A food web shows more relationships.
 - c. A food web is simple.
 - d. A food web has spiders.
14. What are the two main food webs on Earth?
- a. animal and plant
 - b. land and aquatic
 - c. webs and chains
 - d. prairie dog and coyote

Energy Pyramids

15. What happens to most of the energy that grass gets from sunlight?
- a. The grass stores the energy.
 - b. The grass feeds prairie dogs.
 - c. The grass uses the energy to live.
 - d. The grass gets rid of the energy

Directed Reading B *continued*

Circle the letter of the best answer for each question.

16. What diagram is triangle-shaped and shows how energy is lost?

- a. food web
- b. food chain
- c. energy pyramid
- d. community

WOLVES AND THE ENERGY PYRAMID

17. How can the absence of wolves affect elk populations?

- a. The elk eat more animals.
- b. The elk leave the wilderness.
- c. The elk overgraze the grass.
- d. The elk die out.

Gray Wolves and the Food Web

18. Why were gray wolves brought back to Yellowstone National Park?

- a. to help the elk
- b. to restore the natural energy flow
- c. to keep the grass from taking over
- d. to eat the cows and sheep

Balance in Ecosystems

19. What kind of elk do wolves kill?

- a. the strong and healthy
- b. the old, injured, and diseased
- c. the smart and quick
- d. the energetic and fast