

## Active Reading

### Section: Energy Flow in Ecosystems

Read the passage below and answer the questions that follow.

Energy from the sun enters an ecosystem when a plant uses sunlight to make sugar molecules by a process called *photosynthesis*. During photosynthesis, plants, algae, and some bacteria capture solar energy. Solar energy drives a series of chemical reactions that require carbon dioxide and water. The result of photosynthesis is the production of sugar molecules known as *carbohydrates*. Carbohydrates are energy-rich molecules which organisms use to carry out daily activities. As organisms consume food and use energy from carbohydrates, the energy travels from one organism to another. Plants produce carbohydrates in their leaves. When an animal eats a plant, some energy is transferred from the plant to the animal. Organisms use this energy to move, grow, and reproduce.

#### IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently a main idea is accompanied by supporting information that offers detailed facts about main ideas.

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

- \_\_\_\_\_ 1. Plants, algae, and some bacteria capture \_\_\_\_\_ during photosynthesis.
- |                  |                   |
|------------------|-------------------|
| a. solar energy  | c. carbon dioxide |
| b. carbohydrates | d. organisms      |
- \_\_\_\_\_ 2. The chemical reactions driven by solar energy require \_\_\_\_\_.
- |                              |                                        |
|------------------------------|----------------------------------------|
| a. carbon dioxide and water. | c. organisms and water.                |
| b. plants and algae.         | d. carbon dioxide and sugar molecules. |
- \_\_\_\_\_ 3. During photosynthesis, plants make \_\_\_\_\_.
- |                    |                      |
|--------------------|----------------------|
| a. carbohydrates.  | c. water.            |
| b. carbon dioxide. | d. None of the above |
- \_\_\_\_\_ 4. Where does the production of carbohydrates in a plant take place?
- |                         |                     |
|-------------------------|---------------------|
| a. in the carbohydrates | c. in the ecosystem |
| b. in the leaves        | d. in the stems     |

# Holt Environmental Science Answer Key Active

**M Woodhall**



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