Name	Class	Date	
Skills Worksheet			
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

<ol> <li>Plants, algae, and some bacteria during photosynthesis.</li> </ol>	capture
a. solar energy	c. carbon dioxide
<b>b.</b> carbohydrates	d. organisms
2. The chemical reactions driven b	y solar energy require
<ol><li>a. carbon dioxide and water.</li></ol>	<ol><li>c. organisms and water.</li></ol>
<b>b.</b> plants and algae.	d. carbon dioxide and sugar
	molecules.
3. During photosynthesis, plants m	nake
<ol><li>a. carbohydrates.</li></ol>	c. water.
<b>b.</b> carbon dioxide.	<b>d.</b> None of the above
4. Where does the production of ca	arbohydrates in a plant take place
<b>a.</b> in the carbohydrates	<b>c.</b> in the ecosystem
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Name	Class	Date
Active Reading continued		
VOCABULARY DEVELOPMENT		
Read each question and write the answ	er in the space	provided.
5. Energy-rich molecules that organism	ms use to carry	out daily activities are
6. The process by which a plant uses	sunlight to mak	te sugar molecules is called
SEQUENCING INFORMATION		
One reading skill is the ability to seque or events in the order in which they oc		n, or to logically place items
Sequence the statements below to show duction and consumption. Write "1" on line in front of the second step, and so	the line in fron	
7. Photosynthesis produces ca	rbohydrates.	
8. Plants, algae, and some bact	teria capture so	olar energy.
9. Energy is transferred from o	one organism to	another.
10. Solar energy drives a series	of chemical rea	actions.
11. Other organisms consume c some bacteria.	arbohydrates f	ound in plants, algae, and
<b>RECOGNIZING CAUSE AND EFFECT</b> One reading skill is the ability to recog	nize cause and	effect.
In the space provided, write the letter of	of the effect tha	t best matches the cause.
12. Organisms consume food and use energy from carbohydrates.		ydrates are produced. travels from one organism ner.
13. A plant uses sunlight for photosynthesis.		from the plant is trans- ind used to move, grow, roduce.
14. An animal eats a plant.	and rep	roudo.