



Name

Period

Date

SECTION ENERGY IN ECOSYSTEMS
13.3 Study Guide

KEY CONCEPT

Life in an ecosystem requires a source of energy.

VOCABULARY

producer
autotroph
consumer

heterotroph
chemosynthesis

MAIN IDEA: Producers provide energy for other organisms in an ecosystem.

Complete the following sentences with the correct term.

autotrophs	eating	nonliving
consumers	heterotrophs	producers

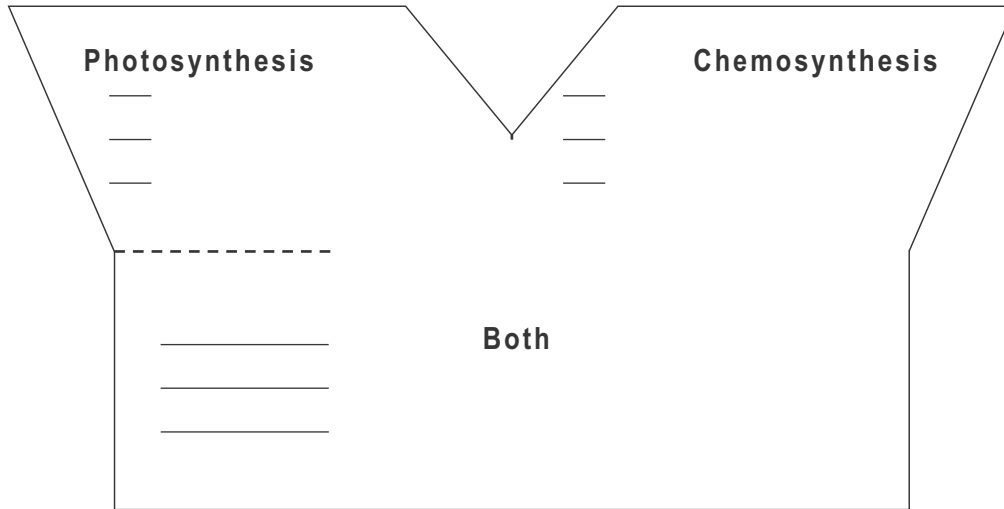
- _____ are organisms that get their energy from _____ resources, meaning they make their own food. These organisms are also called _____.
- _____ are organisms that get their energy by _____ other organisms. These organisms are also called _____.
- Why are producers so important to an ecosystem?

- Why is the Sun important to both producers and consumers?

STUDY GUIDE, CONTINUED

MAIN IDEA: Almost all producers obtain energy from sunlight.

5. Complete the following Y-diagram to outline the similarities and differences between photosynthesis and chemosynthesis.



Vocabulary Check

6.

Word Part	Meaning
auto-	self
hetero-	other
-troph	nourishment

Use the above word origins to explain the difference between an autotroph and a heterotroph.

7. The prefix *photo-* means “light” while the prefix *chemo-* means “chemical.” How do these word origins relate to the difference between photosynthesis and chemosynthesis?

8. What is the difference between a consumer and a producer?
