Name ______

Study Guide 13.3: Energy in Ecosystems

KEY CONCEPT

Life in an ecosystem requires a source of energy.

VOCABULARY

producer	heterotroph	
autotroph	chemosynthesis	
consumer		

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

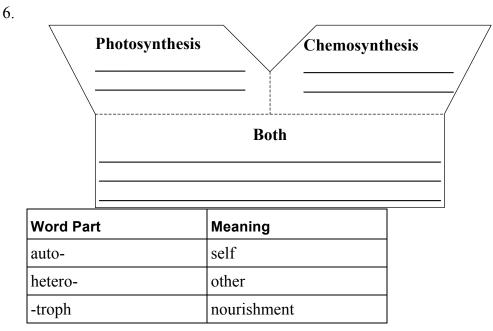
4. Why is the Sun important to both producers and consumers?

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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



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?