Name	Date

Study Guide 13.1: Ecologists Study Relationships

KEY CONCEPT

Ecology is the study of the relationships among organisms and their environment.

VOCABULARY

ecology	ecosystem
community	biome

MAIN IDEA: Ecologists study environments at different levels of organization.

Write a description of each level of organization in the table. Also, provide an example for each level.

Level	Description	Example
1. organism		
2. population		
3. community		
4. ecosystem		
5. biome		

MAIN IDEA: Ecological research methods include observation, experimentation, and modeling.

6.	What is obs	servation?			
			 	 	

7. What is the difference	between direct and is	ndirect surveys?	
•	•	efit and a drawback of conducting rith conducting an experiment in t	
Experiment	Benefit	Drawback	
Laboratory			
Field			
9. When might a scient	ist use a model as a r	research method?	
Vocabulary Chec	k		
10. What is ecology?			
11. Of the three terms, b contains the other tw		ty , and ecosystem , which term	1

Study Guide 13.2: Biotic and Abiotic Factors

KEY CONCEPT

Every ecosystem includes both living and nonliving factors.

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biotic	biodiversity
abiotic	keystone species

MAIN IDEA: An ecosystem includes both biotic and abiotic factors.

Use a word from the box below to complete the following sentences.

living moisture nonliving plants temperature wind 1. All ecosystems are made up of and and and Components. 2 factors are living things, such as or 3 factors are nonliving things, such as main factors are nonliving things, such as MAIN IDEA: Changing one factor in an ecosystem can affect many other factors 4. Describe what biodiversity means in your own words.		-	_
plants temperature wind 1. All ecosystems are made up of and components. 2 factors are living things, such as 3 factors are nonliving things, such as MAIN IDEA: Changing one factor in an ecosystem can affect many other factors 4. Describe what biodiversity means in your own words.	abiotic	animals	biotic
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5. What is the term for an organism that has an unusually large effect on its	4. Describe what bio	odiversity means in your o	wn words.
	5.What is the term fo		

Ocabulary Check What is the difference between a biotic and an abiotic factor? Take another look at the Visual Vocab in Section 2. In architecture keystone is the stone at the center of an arch that holds the arch How does this definition relate to a keystone species? Terestore the box below, sketch a simple ecosystem and label the abiotic and cotors.	
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