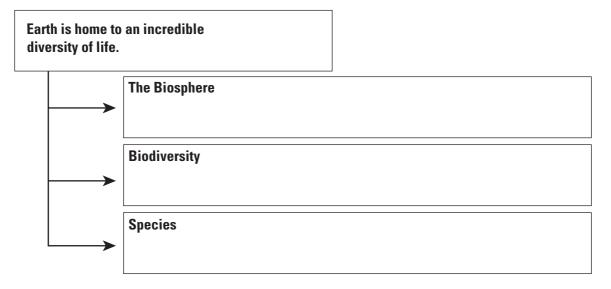
Name	Period	Date	
SECTIONTHE STUDY OF LIFE1.1Study Guide	e		
	VOCABULAR	RY	
	biosphere	RY biology	metabolism
KEY CONCEPT Biologists study life in all its forms.			metabolism DNA

MAIN IDEA: Earth is home to an incredible diversity of life.

Take notes about the diversity of life on Earth in the chart below.

- **1.** In the box labeled **The Biosphere**, list examples of environments on earth in which life is found.
- 2. In the box labeled **Biodiversity**, write a definition of the term in your own words.
- 3. In the box labeled Species, briefly explain what a species is.



- 4. How is biodiversity related to the biosphere?
- 5. In general, how does biodiversity vary across the biosphere?

CHAPTER 1 Biology in the 21st Century

Section 1.1 STUDY GUIDE CONTINUED

MAIN IDEA: All organisms share certain characteristics.

- **6.** Before reading, take a quick look at the headings in this main idea. What are the four characteristics that identify something as living?
- **7.** As you read, take notes on how the four basic characteristics help define what is a living thing.

Characteristic	Summary Sentence
Cells	
Energy and metabolism	
Response to environment	
Reproduction and development	

Vocabulary Check

8. The word *biosphere* is made up of two word parts: *bio-* and *sphere*. How can these two word parts help you to remember the definition of biosphere?

9. What is an organism?

10. The term *metabolism* is based on a Greek word that means "change." How is this meaning related to the meaning of metabolism?