



Name

Period

Date

SECTION
1.1

THE STUDY OF LIFE
Study Guide

KEY CONCEPT

Biologists study life in all its forms.

VOCABULARY

biosphere	biology	metabolism
biodiversity	organism	DNA
species	cell	

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.

Earth is home to an incredible diversity of life.

The Biosphere

Biodiversity

Species

4. How is biodiversity related to the biosphere?

5. In general, how does biodiversity vary across the biosphere?

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?

11. How is DNA related to reproduction?
