

Lesson 106: Biosphere Study Guide

Biology with Lab

1. What is ecology?
2. What does the biosphere contain?
3. Why do ecologists ask questions about events and organisms that range in complexity from an individual to the biosphere?
4. Complete the table about levels of organization.

Level	Definition
Species	
	A group of organisms that belong to the same species and live in the same area
Community	
Ecosystem	
	A group of ecosystems that have the same climate and dominant conditions

5. What is the highest level of organization that ecologists study?

Lesson 106: Biosphere Study Guide (cont.)

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6. What are the three basic approaches scientists use to conduct modern ecological research?

1.

2.

3.

7. Why might an ecologist set up an artificial environment in a laboratory?

8. Why are many ecological phenomena difficult to study?

9. Why do ecologists make models?

10. Is the following sentence true or false? An ecological model may consist of a mathematical formula.