

Chapter 3 The Biosphere **Section Review 3-1**

Reviewing Key Concepts

Matching *On the lines provided, write the letter of the term on the right that best matches each description.*

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|--|---------------|
| _____ 1. groups of individuals that belong to the same species and live together | a. population |
| _____ 2. different populations that live in a defined area | b. biosphere |
| _____ 3. all organisms in an area, including the non-living parts of their environment | c. ecosystem |
| _____ 4. a geographical region containing several ecosystems with the same climate and communities | d. biome |
| _____ 5. the combined portions of the planet in which all life exists | e. community |

Short Answer *On the lines provided, answer the following questions.*

6. In what way is observation important in ecological inquiry?

7. Why do scientists use experimenting as a method of research?

8. How is modeling helpful to scientists?

Reviewing Key Skills

9. **Applying Concepts** Explain the relationship between interactions and interdependence.

10. **Comparing and Contrasting** Observing and experimenting are two ways that ecologists can answer scientific questions. What are some differences between these two approaches?

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