

Chapter 3**The Biosphere****Section 3–1 What Is Ecology?** (pages 63–65)

This section identifies the different levels of organization that ecologists study. It also describes methods used to study ecology.

Interactions and Interdependence (page 63)

1. What is ecology? _____

2. What does the biosphere contain? _____

Levels of Organization (page 64)

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.

LEVELS OF ORGANIZATION

Level	Definition
Species	
	A group of individuals 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 communities

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

Ecological Methods (page 65)

6. What are the three basic approaches scientists use to conduct modern ecological research?
 - a. _____
 - b. _____
 - c. _____

Chapter 3 Ecology Answer Key

Prentice-Hall Staff



Chapter 3 Ecology Answer Key:

Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2012 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth s intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth s systems 2 the importance of the input throughput output processes that describe the global environment 3 how human activities and consumption modify Earth s systems 4 and the scientific economic and policy solutions to environmental problems Revised and updated to reflect current trends and statistics within Environmental Science New content on renewable energy solar panels and compact fluorescent light bulbs The latest information on Hydropower and the advantages and disadvantages of hydroelectric energy The companion website includes robust learning tools that enable students to make full use of today s learning technology Students will find practice quizzes virtual flashcards answers to in text questions and links to additional coverage regarding material discussed in the text Instructor Resources include an instructor s manual Test Bank PowerPoint Lecture Outline Slides and a PowerPoint Image Bank

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