

# 1 Evolution, the Themes of Biology, and Scientific Inquiry

## KEY CONCEPTS

- 1.1** The study of life reveals unifying themes. p. 3
- 1.2** The Core Theme: Evolution accounts for the unity and diversity of life. p. 11
- 1.3** In studying nature, scientists form and test hypotheses. p. 16
- 1.4** Science benefits from a cooperative approach and diverse viewpoints. p. 22

## Study Tip

**Make a table:** List the five unifying themes of biology across the top. Enter at least three examples of each theme as you read this chapter. One example is filled in for you. To help you focus on these big ideas, continue adding examples throughout your study of biology.

| Evolution                                           | Organization |  |  |  |
|-----------------------------------------------------|--------------|--|--|--|
| Beach mouse's coat color matches its sandy habitat. |              |  |  |  |
|                                                     |              |  |  |  |
|                                                     |              |  |  |  |

## Go to Mastering Biology

**For Students** (in eText and Study Area)

- Get Ready for Chapter 1
- Figure 1.8 Walkthrough: Gene Expression: Cells Use Information Encoded in a Gene to Synthesize a Functional Protein
- Video: Galápagos Biodiversity by Peter and Rosemary Grant

**For Instructors to Assign** (in Item Library)

- Scientific Skills Exercise: Interpreting a Pair of Bar Graphs
- Tutorial: The Scientific Method



**Figure 1.1** The light, dappled color of this beach mouse (*Peromyscus polionotus*) allows it to blend into its habitat—brilliant white sand dunes dotted with sparse clumps of beach grass along the Florida seashore. Mice of the same species that inhabit nearby inland areas are much darker, blending with the soil and vegetation where they live.

## How do these mice illustrate the unifying themes of biology?



Beach mouse



Inland mouse

As a result of **evolution** through natural selection over long periods of time, the fur colors of these two populations of mice resemble their surroundings, providing protection from predators.



Structure fits function at all levels of a mouse's **organization**.

Organ (heart)    Tissue    Cell    Molecule



Genetic **information** encoded in DNA determines a mouse's fur colors.

Gene for brown fur

Gene for white fur



**Energy** flows one way from the sun to plants to a mouse; **matter** cycles between a mouse and its environment.

Flow of energy

Cycling of matter



A plant being eaten by a mouse and a mouse being preyed upon by a hawk are **interactions** within a system.

# Ap Biology Campbell Study Guide Chapter 1 Answers

**N Noddings**



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## **Table of Contents Ap Biology Campbell Study Guide Chapter 1 Answers**

1. Understanding the eBook Ap Biology Campbell Study Guide Chapter 1 Answers
  - The Rise of Digital Reading Ap Biology Campbell Study Guide Chapter 1 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Campbell Study Guide Chapter 1 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Biology Campbell Study Guide Chapter 1 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Campbell Study Guide Chapter 1 Answers
  - Personalized Recommendations
  - Ap Biology Campbell Study Guide Chapter 1 Answers User Reviews and Ratings
  - Ap Biology Campbell Study Guide Chapter 1 Answers and Bestseller Lists
5. Accessing Ap Biology Campbell Study Guide Chapter 1 Answers Free and Paid eBooks
  - Ap Biology Campbell Study Guide Chapter 1 Answers Public Domain eBooks
  - Ap Biology Campbell Study Guide Chapter 1 Answers eBook Subscription Services
  - Ap Biology Campbell Study Guide Chapter 1 Answers Budget-Friendly Options

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  - ePub, PDF, MOBI, and More
  - Ap Biology Campbell Study Guide Chapter 1 Answers Compatibility with Devices
  - Ap Biology Campbell Study Guide Chapter 1 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Biology Campbell Study Guide Chapter 1 Answers
  - Highlighting and Note-Taking Ap Biology Campbell Study Guide Chapter 1 Answers
  - Interactive Elements Ap Biology Campbell Study Guide Chapter 1 Answers
8. Staying Engaged with Ap Biology Campbell Study Guide Chapter 1 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Biology Campbell Study Guide Chapter 1 Answers
9. Balancing eBooks and Physical Books Ap Biology Campbell Study Guide Chapter 1 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Biology Campbell Study Guide Chapter 1 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Campbell Study Guide Chapter 1 Answers
  - Setting Reading Goals Ap Biology Campbell Study Guide Chapter 1 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology Campbell Study Guide Chapter 1 Answers
  - Fact-Checking eBook Content of Ap Biology Campbell Study Guide Chapter 1 Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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