

## Section 15-1

### VOCABULARY REVIEW

1. Evolution is the development of new types of organisms from preexisting types of organisms over time.
2. Natural selection is a process in which organisms best suited to their environment reproduce more successfully than other organisms.

### MULTIPLE CHOICE

1. d 2. c 3. a 4. d 5. c

### SHORT ANSWER

1. Since acquired traits are not genetically determined, they cannot be passed on to offspring. Therefore, they cannot cause a population to change over generations.
2. Darwin extended Malthus' ideas to populations of all organisms and reasoned that the environment limits the populations of all organisms by causing deaths or limiting births.
3. Evolution is the change of populations of organisms over time; natural selection is the mechanism by which evolution occurs.
4. Lamarck would have said that the ancestors of modern-day giraffes had short necks but stretched their necks as they tried to reach leaves in trees; so, their descendants were born with longer necks. Darwin would have said that in a population of ancestral giraffes, some had slightly longer necks than others; the long-necked giraffes were better able to feed on tree leaves and as a result produced more offspring. Over time, the proportion of long-necked giraffes in the population increased.

### STRUCTURES AND FUNCTIONS

The bird in B appears to have greater fitness, since it has produced more offspring.

## Section 15-2

### VOCABULARY REVIEW

1. A homologous structure is an anatomical structure that occurs in different species and originated by heredity from a structure in a common ancestor; analogous structures have closely related functions but are not derived from the same ancestral structure.
2. A fossil is the evidence or remains of a preexisting organism; the principle of superposition states that if a sequence of sedimentary rock strata have been undisturbed, the oldest strata will be at the bottom of the sequence and younger strata will be on top. The relative age of the strata is usually determined by comparing the fossils contained in the strata.
3. The relative age of a fossil or rock is simply an indication of whether the fossil or rock is younger or older than another fossil or rock; the absolute age of a rock is the rock's age in years.

### MULTIPLE CHOICE

1. b 2. c 3. b 4. a 5. a

# Chapter 15 Solutions Study Guide Answers

**Morton M. Sternheim**



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## **Table of Contents Chapter 15 Solutions Study Guide Answers**

1. Understanding the eBook Chapter 15 Solutions Study Guide Answers
  - The Rise of Digital Reading Chapter 15 Solutions Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 15 Solutions Study Guide 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 Chapter 15 Solutions Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 15 Solutions Study Guide Answers
  - Personalized Recommendations
  - Chapter 15 Solutions Study Guide Answers User Reviews and Ratings
  - Chapter 15 Solutions Study Guide Answers and Bestseller Lists
5. Accessing Chapter 15 Solutions Study Guide Answers Free and Paid eBooks
  - Chapter 15 Solutions Study Guide Answers Public Domain eBooks
  - Chapter 15 Solutions Study Guide Answers eBook Subscription Services
  - Chapter 15 Solutions Study Guide Answers Budget-Friendly Options

6. Navigating Chapter 15 Solutions Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 15 Solutions Study Guide Answers Compatibility with Devices
  - Chapter 15 Solutions Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 15 Solutions Study Guide Answers
  - Highlighting and Note-Taking Chapter 15 Solutions Study Guide Answers
  - Interactive Elements Chapter 15 Solutions Study Guide Answers
8. Staying Engaged with Chapter 15 Solutions Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 15 Solutions Study Guide Answers
9. Balancing eBooks and Physical Books Chapter 15 Solutions Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 15 Solutions Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 15 Solutions Study Guide Answers
  - Setting Reading Goals Chapter 15 Solutions Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 15 Solutions Study Guide Answers
  - Fact-Checking eBook Content of Chapter 15 Solutions Study Guide 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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