

## Evolution Study Guide Answer Key

1. **EVOLUTION** or change over time, is the process by which modern organisms have descended from ancient organisms
2. A scientific **THEORY** is a well supported, testable explanation of phenomena that have occurred in the natural world.
3. **CHARLES DARWIN** was an English naturalist who made numerous observations during his travels on the Beagle which led him to pose a hypothesis about how life changes over time.
4. **FOSSILS** are the preserved remains of ancient organisms that provide evidence for how life has changed over time.
5. **JEAN-BAPTISTE LAMARCK** proposed that the selective use or disuse of an organ led to a change the organ that was then passed on to the offspring.
6. **FITNESS** is the ability of an individual to survive and reproduce in its specific environment.
7. The process whereby individuals that are better suited to their environment survive and reproduce more successfully is called **NATURAL SELECTION** , which Darwin nicknamed **SURVIVAL OF THE FITTEST**
8. Structures that have different mature forms but develop from the same embryonic tissues are called **HOMOLOGOUS STRUCTURES**
9. Homologous structures that are so reduced in size that they no longer function, like the human appendix or legs in skinks, are called **VESTIGIAL** organs
10. The idea that each living species has descended with changes over time from other species is called **DESCENT** with **MODIFICATION**.
11. Dolphins, penguins, and sharks are distantly-related species that share similar characteristics which help them live in water. This is an example of **CONVERGENT** evolution.
12. Even though the Galapagos finches share a common ancestor, they have evolved to fit the ecosystems of their individual islands. This is an example of **DIVERGENT** evolution.
13. Another name for divergent evolution is **ADAPTIVE RADIATION**

### MULTIPLE CHOICE

Circle the answer that best completes the statement.

A well supported, testable explanation of phenomena that have occurred in the natural world is called a

- A. hypothesis
- B. theory**
- C. law

Of all the places he visited, the \_\_\_\_\_ Islands influenced Darwin's ideas about evolution the most.

# Evolution Study Guide Answers

**Chiras**



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## **Table of Contents Evolution Study Guide Answers**

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

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