

BIOLOGY STAAR

review booklet

B.7 The student knows evolutionary theory is a scientific explanation for the unity and diversity of life.

1C. STAAR Reporting Category 3- BIOLOGICAL EVOLUTION & CLASSIFICATION

B.7 The student knows evolutionary theory is a scientific explanation for the unity and diversity of life.

B.7.10 Analyze and evaluate how evidence of natural selection among groups is provided by the fossil record, biogeography, and comparative anatomy and biochemistry.

1. Evidence for Evolution: The Fossil Record

- Fossils can provide evidence for evolution for the following reasons (check all that apply):
 - _____ Fossils can provide missing links among organisms to suggest common ancestors.
 - _____ Fossils can provide us with a timeline, so to know how long an organism existed.
 - _____ Fossils can reveal the structure of an organism.
 - _____ Fossils can reveal how an organism lived.
 - _____ Fossils can suggest if rapid changes in the environment occurred during the organism's existence.



The diagram at left represents the evolution of the horse from 50 million years ago until now.

2. Based on the information, the common ancestor of the modern day horse and the extinct, four-toed ancestor is the _____.

3. Does the evolution of the modern day horse suggest a rapid change or a gradual change?

4. What is the relationship between the placement of the fossils (the layer of rock they are found in) and time?

2. Biogeography Clues

Biogeography is used to study how and why plants and animals live where they do. The distribution of species over geographical areas includes both living species and the fossilized remains of extinct species. Closely related species are usually found in close proximity to one another and fossils from these regions resemble the modern organisms found there.

Source: Biology Online, <http://www.biologyonline.com>

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2. Biogeography Clues



3. Define homologous structures.

4. Homologous structures that are shared among two or more organisms suggest that the organisms share a _____.

10. The common ancestor of humans, dogs, birds, and whales most likely had _____ (fill in the blank).

10. Molecular Evidence for Evolution: DNA and Amino Acids

DNA determines an organism's traits and its development. By comparing genomes or amino acids, scientists can determine how closely related two or more organisms are. The more closely related the organisms, the more recent their common ancestor.

Species	Amino Acid Differences compared to human cytochrome b
Neotoma	14
Human	0
Mouse	10
Chimpanzee	1

The chart at left compares the amino acid sequence of human cytochrome b to the amino acid sequence of other species. (Cytochrome b is a protein found in blood.)

11. If the amino acid sequence is similar among two groups of organisms, what does that suggest about the shared DNA sequence?

12. According to this chart, which organism would you argue that humans share the most recent common ancestor with and why?

11. Biogeography Clues

13. In the table below, list how each structure provides evidence of common ancestry.

Structure	Biogeography Clues



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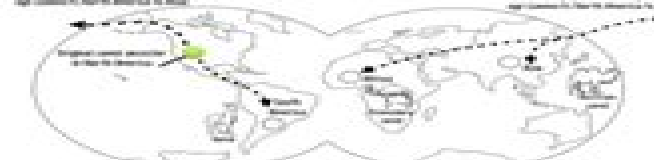
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2. Biogeography Clues

Island Biogeography

- Remote islands that are difficult to reach attract fewer than mainland islands. However, there are many islands that are difficult to reach but have many species. This is because island biogeography is usually not with species, time, and space.
- Typically, the species found on islands are most like those found on the nearest continent.

Island biogeography is the study of the distribution of species on islands. It is a branch of biogeography.



12. Biogeography is used to study how and why plants and animals live where they do. The distribution of species over geographical areas includes both living species and the fossilized remains of extinct species. Closely related species are usually found in close proximity to one another and fossils from these regions resemble the modern organisms found there.

13. What did this suggest about the evolution of the different species Darwin observed?

14. Offer an explanation as to how we know that the ancestors of giraffes and horses originated in North America.

15. How does the current example above support the theory of evolution? In other words, why would the migration of a single common ancestor to 2 different areas result in the formation of 2 different species?

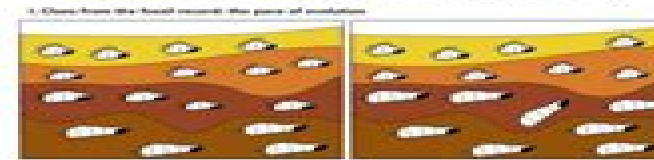
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1. Clues from the Fossil Record: The Pace of Evolution



1. In the species above, label the diagrams A and B as either stasis or rapid in regards to the evolution of the organism represented in the fossil record.

2. In the diagrams above, the oldest fossils would be found in the _____ strata type, and the youngest fossils would be found in the _____ strata type.

3. Changes that are slow and steady over a long period of time have descriptive fossils and gradualism/gradualism.

4. Each fossil in the diagram above represents a transitional form as each species evolved. What diagram would best support the result of gradualism and why?

5. Offer an explanation as to why abrupt appearances might occur in the fossil record.

Source: Biology Online, <http://www.biologyonline.com>

2013 Biology Staar Answer Key

**Ken Collier, Steven Galatas, Julie
Harrelson-Stephens**



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Lone Star Politics Ken Collier, Steven Galatas, Julie Harrelson-Stephens, 2020-12-10 In Texas myth often clashes with the reality of everyday government Explore the state s rich political tradition with Lone Star Politics as the author team explains who gets what and how Utilizing a comparative approach the authors set Texas in context with other states constitutions policymaking electoral practices and institutions as they delve into the evolution of its politics Critical thinking questions and unvarnished Winners and Losers discussions guide students toward understanding Texas government and assessing the state s political landscape The highly anticipated Seventh Edition includes coverage of the state s response to the COVID pandemic brand new chapter level learning objectives updated demographic and immigration statistics and new Discussion Starter questions to help in class discussion on critical policy debates Digital Option Courseware SAGE Vantage is an intuitive digital platform that delivers this text s content and course materials in a learning experience that offers auto graded assignments and interactive multimedia tools all carefully designed to ignite student engagement and drive critical thinking Built with you and your students in mind it offers simple course set up and enables students to better prepare for class Assignable Video with Assessment Assignable video available with SAGE Vantage is tied to learning objectives and curated exclusively for this text to bring concepts to life LMS Cartridge Import this title s instructor resources into your school s learning management system LMS and save time Don t use an LMS You can still access all of the same online resources for this title via the password protected Instructor Resource Site CQ Press Lecture Spark Designed to save you time and ignite student engagement these free weekly lecture launchers focus on current event topics tied to key concepts in American Government

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Table of Contents 2013 Biology Staar Answer Key

1. Understanding the eBook 2013 Biology Staar Answer Key
 - The Rise of Digital Reading 2013 Biology Staar Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Biology Staar Answer Key
 - 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 2013 Biology Staar Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Biology Staar Answer Key
 - Personalized Recommendations
 - 2013 Biology Staar Answer Key User Reviews and Ratings
 - 2013 Biology Staar Answer Key and Bestseller Lists
5. Accessing 2013 Biology Staar Answer Key Free and Paid eBooks
 - 2013 Biology Staar Answer Key Public Domain eBooks
 - 2013 Biology Staar Answer Key eBook Subscription Services
 - 2013 Biology Staar Answer Key Budget-Friendly Options

6. Navigating 2013 Biology Staar Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 2013 Biology Staar Answer Key Compatibility with Devices
 - 2013 Biology Staar Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Biology Staar Answer Key
 - Highlighting and Note-Taking 2013 Biology Staar Answer Key
 - Interactive Elements 2013 Biology Staar Answer Key
8. Staying Engaged with 2013 Biology Staar Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Biology Staar Answer Key
9. Balancing eBooks and Physical Books 2013 Biology Staar Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Biology Staar Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2013 Biology Staar Answer Key
 - Setting Reading Goals 2013 Biology Staar Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2013 Biology Staar Answer Key
 - Fact-Checking eBook Content of 2013 Biology Staar Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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