

Unit 4: Geologic Time Study Guide

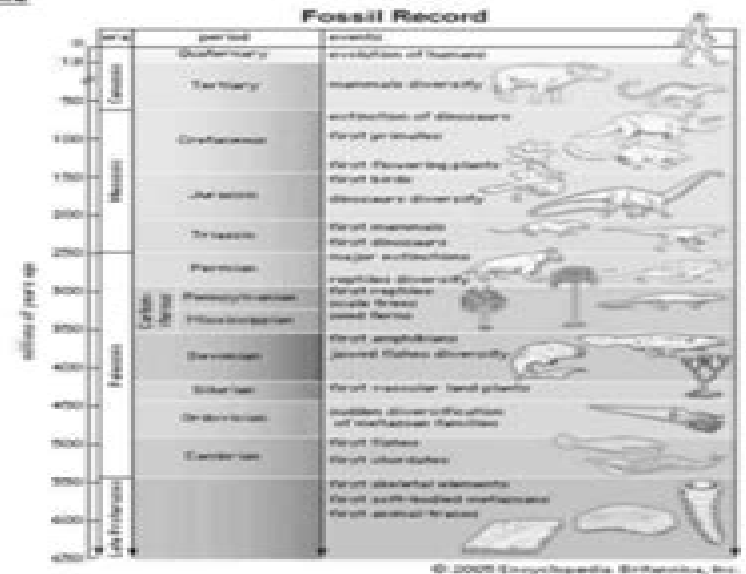
Part 1: Geologic Timescale

Concept Review:

When did:	Period	Years
Mammals Appear	<u>Triassic</u>	<u>250-200 mya</u>
Reptiles Appear	<u>Pennsylvanian</u>	<u>325-300 mya</u>
First Amphibians	<u>Devonian</u>	<u>400-350 mya</u>
First Animal Traces	<u>Late Proterozoic</u>	<u>600-550 mya</u>
First Birds Appear	<u>Jurassic</u>	<u>200-150 mya</u>

The picture to the right is of fossil records. Why doesn't the picture contain any fossils from the Archaean or the Hadean? Hadean there is no evidence of life at all. Archaean had life But the life was a soft organism with no bones or skeletons.

What are some major characteristics of the Mesozoic Era?
Age of the dinosaurs, first mammals and birds appeared. First Flowering plants and first primates. Ended with dinosaur extinction



Part 2: Relative Dating

Vocabulary:

Index Fossils – fossils used by geologists to date the age of rock layers.

Geologic Column – a non-existing model of the Earth's rock layers pieced together from multiple locations.

Law of Superposition – sedimentary rock layers on top are younger than rock layers on bottom.

Law of Cross Cutting Relationships – rock layers that cut through other rock layers are younger than the layers they cut through.

Law of Original Horizontality- sedimentary rocks are originally laid horizontally due to gravity. Any folds, bends, faults occur later and therefore are older than horizontal rock layers.

Inclusion/Intrusion – igneous rocks that are surrounded by other rock types, mainly due to lava/magma flows.

Unconformity – missing or irregular layering or shape. Mainly due to erosion, extremely folding from plate tectonic movement, or lava/magma flow melting/cutting through rock layers.

Concept Review:

Geologic Time Study Guide Answers

A Loxley



Geologic Time Study Guide Answers:

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Table of Contents Geologic Time Study Guide Answers

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

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