

Unit 4: Geologic Time Study Guide

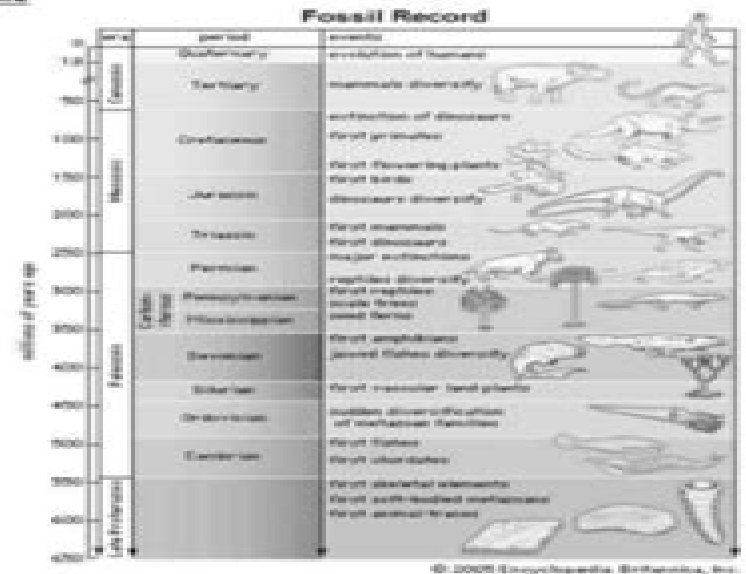
Part 1: Geologic Timescale

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

Lingjun Ying



Geologic Time Study Guide Answers:

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