

Geologic History and Biologic History Unit 4

Timeframe:

Standards & Essential Question(s)	Student Friendly Daily Learning Targets	Resources	Critical Vocabulary	Assessments
<p>08-ESS1-4 Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6 billion year old history.</p> <p>08-LS4-1 Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life of Earth under assumption that natural laws operate today as in the past.</p> <p>08-LS4-2 Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships.</p>	<p>I can analyze evidence to explain the organization of the geologic timeline</p> <p>I can analyze patterns through fossil evidence to demonstrate that life on Earth has evolved</p> <p>I can infer evolutionary relationships from observations of anatomical similarities of past and present organisms and their embryos</p>		<ul style="list-style-type: none"> ● Law of Superposition ● Principle of original horizontality ● Principle of inclusion ● extinction ● evolution ● uniformitarianism ● rock strata ● geologic timeline ● geologic time scale ● relative age ● absolute age ● Law of uniformitarianism 	

08-LS4-3 Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident in the fully formed anatomy.

How do fossil and rock evidence give clues to major events in Earth's history?

How do organisms evolve over time?

How have geological processes influenced the evolution of organisms?

https://www.nextgenscience.org/sites/default/files/evidence_statement/black_white/MS-ESS1-4%20Evidence%20Statements%20June%202015%20asterisks.pdf

https://www.nextgenscience.org/sites/default/files/evidence_statement/black_white/MS-LS4-1%20Evidence%20Statements%20June%202015%20asterisks.pdf

<https://www.nextgenscience.org/sites/default/files/evid>

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