

Geologic Changes Over Time Study Guide

Fossils: Complete the chart to summarize what you have learned about fossils.

Fossil Type	What is Preserved	What it Can Tell Scientists	Examples

Be able to order or list the sequence of events for the formation of these things:

- animal fossil in amber: _____

- fossil in asphalt: _____

- trace fossil: _____

- sedimentary rock: _____

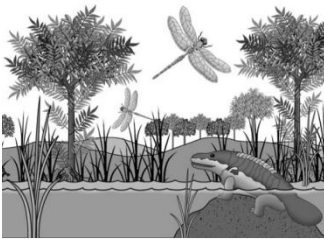
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What does it tell us? Complete the chart to summarize what you have learned about evidence scientists use.

Evidence Type	What it Can Tell Scientists	Examples/Sketches
fossil record		
composition of sedimentary rock		
ripple marks		
locations of similar rock types, mountains, or fossils		
mountain appearance		
tree rings		
sea-floor sediments		
ice cores		

Be able to analyze “evidence” examples from the chart above. You may be given a written description or an image to analyze. You should be able to explain what the evidence tells you about the climate of the area from which it came.

Be able to draw a fossil record for an area if given images of what the area looked like at different time periods.

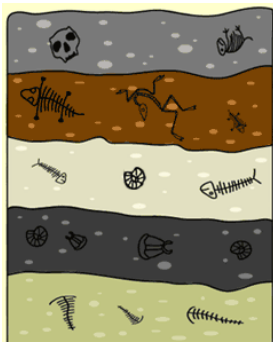


A swamp, 300 million years ago

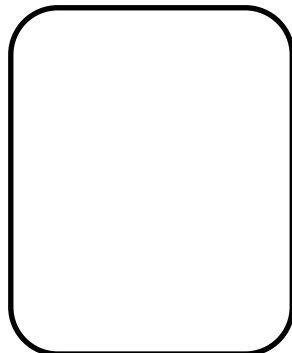


A forest, 150 million years ago

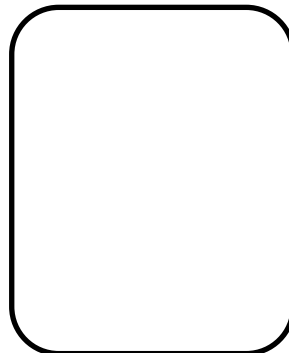
Be able to look at a diagram of a fossil record and describe or draw how the environment changed over time.



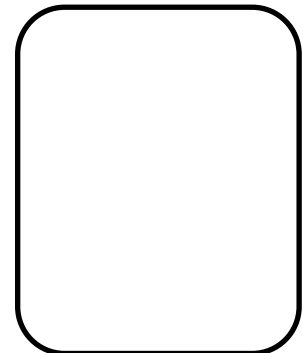
Fossil Record



Older Environment



Mid-range Environment

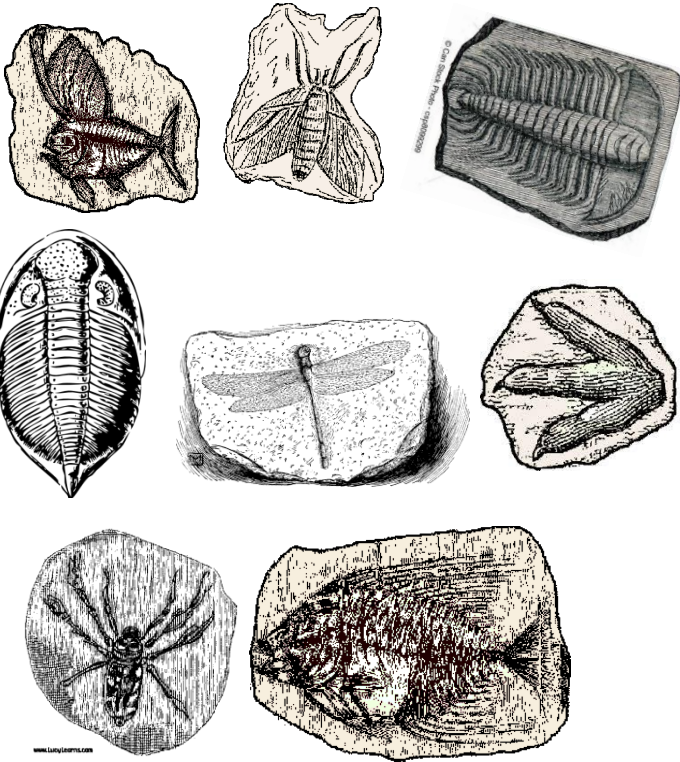


Most Recent Environment

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Be able to classify & categorize examples of fossils scientifically and explain your reasons.

(Circle fossils you would group together using the same color. Write your reason for your choices in that color. You will need more than one color to complete this section!)



Know the definition of uniformitarianism AND be able to identify some examples of it.

Definition of uniformitarianism: _____

Examples of uniformitarianism: _____

