

Geologic Time Webquest

Based on <http://www.ucmp.berkeley.edu/education/explorations/tours/geotime/gtpage1.html>

Answer these questions as you progress through this tutorial.

1. Approximately how old is the earth?
2. When did the earliest life appear on earth?
3. What is missing when showing the **relative** order of events in a timeline?
4. What is the Law of Superposition?
5. Draw a cross-section of a mountain with five basic rock layers and label the oldest and the youngest layers.

6. What is a trilobite?
7. Based on the fossils found in the rock layers, put the fossils in order from oldest to most recent.

Very good! You just did relative dating!

8. What process gives us absolute dates of rocks?
9. What does absolute dating of a rock tell us?
9. What type of rock layer is easy to date?
10. Explain how the Law of Superposition helps scientists to give absolute dates to rocks and fossils.
11. What does the Geologic Time Scale represent?

9. What is characteristic of the Pre-Archean (Hadean Eon)?

10. What life form evolved during the Archean?

11. What does Proterozoic mean? Is this accurate? Explain.

12. **Use the Coach Book pg. 237 to complete the Table below.

EON	ERA	Period	Events
Phanerozoic Eon	Cenozoic Era	Quaternary	
		Tertiary	
	Mesozoic Era		
	Paleozoic Era		
Precambrian Eon	Proterozoic Era		
	Archaean Era		
	Hadean Era		No Life

13. Write out the answer to each question below as you answer them. Hint: You may see these again!!

(1) Scientific evidence suggests that the Earth is:

(2) Evidence for past events in Earth's ancient history are provided by:

(3) The Law of Superposition allows us to determine:

(4) Radiometric dating allows us to determine:

(5) The divisions of time in the Geologic Time Scale represent: