

Geologic Time – Online Activity

Name: _____

You will be taking three online tours to explore the concept of Geologic Time. To start your first tour, go to <http://www.ucmp.berkeley.edu/education/explotime.html>



Click on **Getting Into the Fossil Record** , then click on Level 2.

1. What does the word fossil refer to today?
2. What is the fossil record?
3. Fossils can be _____ or _____.
4. Most fossils are formed when organisms or their traces are _____ by _____.
5. What is a mold?
6. Give an example of an impression fossil: _____
7. Besides becoming buried in sediment, give another example of how a fossil can form.
8. Why does an organism that dies in or next to a lake have a better chance of becoming fossilized?
9. Explain how a fossil might be melted.
10. What type of rock is most likely to contain fossils?

Once you have finished the Review portion, follow the Next button and click on **Return to the Explorations Through Time** main page to start another adventure.

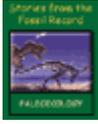


Click on **Understanding Geologic Time** , then click on Student Start (top left).

1. How old do scientists think the Earth is? _____
2. When did early land plants appear on Earth? _____
3. How long ago did the dinosaurs become extinct? _____
4. When did Lucy live on Earth? _____
5. Where can we look for evidence of Earth's relative time? _____
6. Where are the oldest rock layers found – top or bottom of a rock sequence?
7. Define the Law of Superposition:
8. Which fossil is older: trilobites or eurypterids? _____
9. What process do scientists use to determine the absolute age of rock layers?
10. How do we represent Earth's events in an organized way?
11. _____ determines the age range of each period in the Geologic Time Scale.
12. Which era did trilobites originate in? _____
13. Dinosaurs were abundant in the _____ Era.
14. In which period did the land masses come together to form Pangaea? _____
15. The _____ Period marked the presence of glaciers.

Write your quiz score here: _____

After you have finished this tour, click on **Return to the Explorations Through Time** main page to start another adventure.



Click on **Stories from the Fossil Record**, then click on STUDENTS.



Click on **Geologic Time**

1. Fossils provide _____ to past events.
2. What does each rock layer represent?
3. The oldest rock layers are always on the _____.
4. List an example of a fossil from the Jurassic period: _____.
5. Define an index fossil:
6. What do index fossils help us determine?
7. If you found the fossil *Venericardia planicosta* in a rock layer, what can you say about the age of that rock layer?
8. What do marine fossils on the top of a mountain tell us?
9. How do fossils give us information about the past locations of the continents?

Take the quiz – Good Luck!!!!