

Name: _____

Period: _____

Rev: 2/10/08

Ch. 13 Questions
Clues to Earth's Past

Answer each question completely. If you have questions, please ask early. You may have to see the teacher outside of class if you need help. ***This assignment is NOT accepted late.***

1. What are the two conditions necessary for typical fossil formation?
A. _____ B. _____

2. Compare and contrast a fossil mold and cast.

3. A. Compare and contrast original remains with other kinds of fossils. B. What kinds of information would only be available from original remains?

4. A. Explain the concept of relative age. B. How is this different from absolute age?

5. A rock layer contains three types of fossils. Fossil A is from an organism that was Earth 365-425 million years ago. Fossil B is from an organism that was on Earth 250-550 million years ago. Fossil C is from an organism that has been found on Earth 225-385 million years ago. Draw a picture to determine the age of the rock layer.

6. A. In the previous question, which is the best fossil as an index fossil? B. Explain why.

7. Evaluate the age of rocks. You find three undisturbed rock layers. The middle layer is 120 million years old. A. What can you say about the ages of the layers above? (Be specific) B. Below?(Be Specific)

8. A. Determine the age of a fossil if it only had $\frac{1}{8}$ of its original carbon-14 content remaining. B. Illustrate your work.

9. Why can't scientists use carbon-14 to determine the age of igneous rock?

10. Make and use a table that shows the amount of parent material of a radioactive element that is left after four half-lives if the original parent material had a mass of 100 grams.