

Name: _____

Period: _____

Due Date: _____

Ch. 14 Questions--Geologic Time

Define each AS THEY ARE DEFINED IN YOUR TEXT. Do not use only references as they may be the wrong definitions. Note: some must be defined based on diagrams. You may have to interpret meaning from the diagrams on your own. **This assignment is NOT accepted late.**

1. How do fossils relate to the geologic time scale?
2. Explain how paleontologists use trilobite fossils as index fossils for various geologic time periods.
3. How might natural selection cause evolutionary change to take place?
4. A. How could the evolution of a characteristic within one species affect the evolution of a characteristic within another species? B. Give at least one example.
5. List the geologic events that ended the Paleozoic Era.
 - A.
 - B.
 - C.
6. Infer how geologic events at the end of the Paleozoic Era might have caused extinctions?
7. Identify the major change in life-forms that occurred at the end of Precambrian Time.

8. Using the Applying Math Information on page 411. Answer the following:
- A. Calculate the percentage of reptiles that survived at the end of the Cretaceous period.
 - B. Calculate the percentage of mammal that survived at the end of the Cretaceous period.
 - C. Which type of animal was least affected by extinction? (Amphibians, Reptiles, or Mammals)
 - D. What percentage of all groups survived the end of the Cretaceous period?
9. List the era, period, and epoch in which *Homo sapiens* first appeared.
- A. Era--
 - B. Period--
 - C. Epoch--
10. Explain why some paleontologist hypothesize that dinosaurs were warm-blooded animals.