

Geologic Time – Eprep 8

Overview of the Chapter:

1. Before reading or looking at the chapter, write down what you know about dating rock layers and the age of the earth – from prior experiences
2. Write down 3 questions of your own that you want to know about the age of the earth and how scientists age date layers of rock
3. Look through the chapter and find 5 figures that capture your interest and briefly describe your each figure.
4. Write a question (before you read each paragraph) for various paragraph headings in which you want to know the answer.

Chapter questions

1. Describe the differences between uniformitarianism and catastrophism
2. Describe the differences between relative dating and absolute dating
3. Describe the law of superposition, law of original horizontality, law of inclusions and cross-cutting relations
4. Define an unconformity and draw a diagram showing each type of unconformity (disconformity, angular unconformity, nonconformity)
5. Draw the complete Geologic Time Scale. Include all the eons, eras, periods and the epochs for only the Quaternary and Tertiary periods.
6. After studying the Geological Time scale, what problems do think there is when you compare the time scale with the believed age of the earth (4.6 billion years)?
7. Describe the process of radiometric dating using the concept of half-lives
8. How old are some of the oldest rocks on Earth and where are they found
9. Why is earth not a good place to look for the oldest rocks in the solar system?—What generally happens to the rocks formed on the earth's surface?