

GEOLOGIC TIMELINE QUESTIONS

Name _____

Date _____ Period _____

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Directions: Using your Geologic Timeline and the Earth History Time Line / Rocks over Time worksheet, answer the following questions.

1. Which era is the longest? _____
2. Which era has the most periods? _____
3. Which era are we living in? _____
4. If the dinosaurs live 215 millions of years ago, which period would this be? _____
5. During which geological era were Grand Canyon rocks deposited? _____
6. Excluding the Grand Canyon Supergroup, what is the oldest rock exposed at the Grand Canyon?

How old is this rock? _____
During which period did this rock start forming? _____
7. What is the youngest rock exposed at the Grand Canyon? _____
How old is this rock? _____
During which period did this rock stop forming? _____
8. Do scientists know more about the history of the Earth closer to the Quaternary Period or the Precambrian Era? _____
9. Which Grand Canyon rocks are older – Hermit Shale or Muav Limestone? _____
Do you have to know the age of the rocks to answer the questions? _____

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10. We know that the Kaibab Formation is mostly limestone which forms in an ocean. This ocean existed between 260,000,000 and 255,000,000 years ago. If the geologists are right, how long did the Kaibab Sea exist? _____

11. Unconformities are breaks or gaps in the rock record. Where do unconformities appear on the timeline? (What eras / periods?) _____

12. Why are dinosaur fossils not found in the Grand Canyon layers? _____

