**Geologic Time**

**Directions:** As we progress through the online module as a class, fill in the missing blanks with the key terms or words from the online lecture.

1. Throughout history, the Earth and the life it supports has \_\_\_\_\_\_\_\_\_\_\_\_\_ .
2. Our Earth is ­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_ of years old.
3. A book that dedicates one page for every year of Earth’s history would measure \_\_\_\_\_\_\_\_\_ miles thick. This would take an average reader \_\_\_\_\_\_\_\_\_\_ YEARS to read if they did absolutely nothing else but read!
4. Why is it important to put things in order? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. We use a ­­­­\_\_\_\_\_\_\_\_\_\_\_ to order events. earliest🡨-------------------------------------🡪most recent
6. A timeline provides the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of when events occurred.
7. How do scientists generate a timeline of Earth’s history? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Where is the evidence used to order the history of life found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Each rock layer represents a period of \_\_\_\_\_\_\_ in history (similar to a page in the book of Earth’s history) so the layers can be used to represent a timeline.
10. How are rock layers used to produce a timeline? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Where is the *evidence* for Earth’s history found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. How Scientists study the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of rocks to determine the accurate ages of rock layers.
13. An organized way to represent the history of life on Earth is through a vertical timeline we call the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. The Geologic Time Scale represents the entire history of Earth and is divided into periods of time in which great \_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurred.
15. The age range of each period is determined by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. Pre-Archean: There was no evidence for \_\_\_\_\_\_\_\_\_ at this time.
17. Archean: Means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; 1st single-celled organisms (ex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) evolved.
18. Proterozoic: Presence of algae and unusual \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ creatures.
19. Phanerozoic: The abundant, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on Earth starting 544 mya and include 3 major changes in biodiversity.
20. The \_\_\_\_\_\_\_\_\_\_\_ periods (Eras) in the Phanerozoic are the Paleozoic, Mesozoic, and Cenozoic.
21. Paleozoic: “ancient life” – time of when many of animals we see today \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, some of which have gone extinct.
22. Mesozoic: “middle life” – plenty of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, cycads, fern.
23. Cenozoic: “recent life” – plenty of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, birds, flowering plants, ray-finned fishes.

Summary: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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