

# Directed Reading A

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## Section: Time Marches On GEOLOGIC TIME

- \_\_\_\_\_ 1. How much geologic time do the layers of rock exposed at Grand Canyon National Park represent?
- a. 10 million years
  - b. 6 million years
  - c. 2 billion years
  - d. 6 billion years

### THE GEOLOGIC TIME SCALE

- \_\_\_\_\_ 2. How many years of Earth's history do geologists study?
- a. 150 million years
  - b. 10 million years
  - c. 4.6 billion years
  - d. 10.2 billion years
3. Why have geologists created the geologic time scale?

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**Match the correct description with the correct term. Write the letter in the space provided.**

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|---|----------------|
| _____ 4. the eon during which the earliest known rocks formed on Earth                    | a. Hadean      |
| _____ 5. the eon in which we live   | b. Archean     |
| _____ 6. the eon from which scientists have found rocks and meteorites only from the moon | c. Proterozoic |
| _____ 7. the eon in which the first organisms with well-developed cells appeared          | d. Phanerozoic |
8. What do the boundaries between geologic time intervals represent?

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**Directed Reading A *continued***

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9. Number the following divisions of geologic time from largest to smallest.

\_\_\_\_\_ epoch

\_\_\_\_\_ eon

\_\_\_\_\_ era

\_\_\_\_\_ period

10. What is extinction?

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11. What kinds of catastrophic events can cause extinction?

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12. Describe the beginning of the Paleozoic era.

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13. How did the Paleozoic era end?

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14. Why is the Mesozoic era called the Age of Reptiles?

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**Directed Reading A** *continued*

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15. Why is the Cenozoic era called the Age of Mammals?

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16. What probably caused the extinction of dinosaurs?

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17. What unique traits probably helped mammals survive?

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