

## Directed Reading B (Lesson 6-1)

### Section: Earth's Story and Those Who First Listened THE PRINCIPLE OF UNIFORMITARIANISM

Circle the letter of the best answer for each question.

1. Who outlined the principle now called uniformitarianism?
  - a. Albert Einstein
  - b. James Hurst
  - c. James Hutton
  - d. Charles Lyell
2. What does the principle of uniformitarianism state?
  - a. The geologic processes once at work are now changing.
  - b. The Earth changes only at certain times and only after certain events.
  - c. The Earth has always been as it is now.
  - d. The same geologic processes have been at work throughout Earth's history.

### Uniformitarianism Versus Catastrophism

3. Which of the following ideas did Hutton's theories suggest?
  - a. The Earth was not very old.
  - b. The Earth had experienced many catastrophes.
  - c. The Earth was much older than people thought.
  - d. The Earth never changed.
4. What does the principle of catastrophism state?
  - a. Geologic changes occur suddenly.
  - b. Geologic changes are predictable.
  - c. Geologic catastrophes are uniform.
  - d. Geologic changes occur slowly.

Directed Reading B *continued*

**A Victory for Uniformitarianism**

**Circle the letter of the best answer for each question.**

5. Who wrote *Principles of Geology*?
  - a. Albert Einstein
  - b. James Hutton
  - c. Charles Lyell
  - d. Charles Houston
  
6. Which principle did *Principles of Geology* support?
  - a. deposition
  - b. erosion
  - c. catastrophism
  - d. uniformitarianism

**MODERN GEOLOGY—A HAPPY MEDIUM**

7. What do modern-day scientists believe about geologic change?
  - a. It all happens very slowly.
  - b. It all happens suddenly.
  - c. Some happens gradually, and some happens suddenly.
  - d. Geologic change does not happen.

**PALEONTOLOGY—THE STUDY OF PAST LIFE**

**Read the words in the box. Read the sentences. Fill in each blank with the word or phrase that best completes the sentence.**

fossils	paleontologists
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8. Scientists who study past life are \_\_\_\_\_.
9. The data these scientists use are \_\_\_\_\_.