Earth and Life History Name:

History of Geology Period:

Use Chapter 8, Section 1 to help you answer the questions below.

Section 1: The Study of Earth's History (p.234)
The Early Study of Geology

1. James Hutton stated that the key to understanding Earth's _____ is all around us.

2. The processes of _____ and _____ have not changed over time.

_____ 3. What does the principle of uniformitarianism state?
a. The geologic processes once at work are now changing.
b. Earth changes only at certain times and only after certain events.
c. Earth has always been as it is now.
d. The same geologic processes have been at work throughout Earth's history.

Uniformitarianism Versus Catastrophism

_____ 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.

_____ 5. 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.

A Victory for Uniformitarianism

_____ 6. Which principle did Principles of Geology support?
a. deposition b. erosion c. catastrophism d. uniformitarianism

Modern Geology—A Happy Medium (p.236)

_____ 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.

8. _____ can affect small areas or the whole Earth, and can have short-term or long-term effects on _____ .

9. Some scientists believe that an _____ hitting Earth contributed to the disappearance of the dinosaurs.

10. The debris cloud from a large asteroid striking Earth, or from a large volcanic eruption, could have caused a _____ of Earth's climate.