| Name | Date | Class |
|--|-----------------------------|-------|
| Ch | napter 3, continued | |
| Modern geology is considered a trop ism and uniformitarianism. | between catas- | |
| b. contrast | noice | |
| Review (p. 58) Now that you be finished Section 1, reason ang the Review questions in you | | |
| Section 2: Relative Dating: First? (p. 59) | | |
| 1. What clues do scientists use to stud | dy the Earth's history? | |
| | | |
| 2. Determining the age of objects or objects or events is called | events in relation to other | |
| The Principle of Superposition (1) 3. As long as a sequence of rock layer | | |
| know that roc | rocks lie above | |
| 4. What phrase will help you remem superposition? | | |
| | | |
| The Geologic Column (p. 60) | - | |
| 5. How did geologists create the geol | ogic column? | |
| | | |
| | | |

Chapter 3, continued

I'lace each of the terms below in the correct order to complete the following sentence. Write the corresponding letter for each term in the appropriate blank.

- **6.** Geologists will gather _____ about a ____ and compare it with the _____ in order to determine the sequence's _____.
 - a. age(s)
 b. geologic column(s)
 c. information
 d. rock sequence(s)

Disturbed Rock Layers (p. 61)

| 7. | Why is a crosscutting feature always younger than the rock layers it cuts across? |
|----|---|
| | |
| | |
| | |

Choose the term in Column B that best matches the description in Column A, and write your answer in the space provided.

| Column A | Column B |
|---|--|
| 8. a break in the Earth's crust along which blocks of crust slide relative to one another 9. younger sediment deposited on top of older layers 10. molten rock that has squeezed into existing rock and hardened 11. rock layers bent by the Earth's internal forces 12. rock layers slanted by the Earth's internal forces | a. superpositionb. foldc. faultd. tilte. intrusion |

Gaps in the Record—Unconformities (p. 62)

13. When a layer or several layers of rock are missing from a rocklayer sequence, the gaps are called unconformities. True or False? (Circle one.)

| Name | Date | Class |
|--|---|---|
| | Chapter 3, continued | |
| 4. Name two possible expland layer sequence. | nations for a missing layer in a ro | ock- |
| 5. From Figure 6, an unconfe | ormity is called | |
| | if the missing layer was never | er actu- |
| ally present. 6. Nondeposition occurs who | en the supply of | |
| • | stops at some point and the | n |
| | | |
| | causes an unconfort | mitv |
| restarts when an area is exposed to Eypes of Unconformities (Choose the term in Column B) Column A, and write your ans | causes an unconform o water, wind, or other elements. p. 63) s that best matches the descriptions wer in the space provided. Terms | on in |
| restarts when an area is exposed to when an area is exposed to the conformities (as the conformities (as the conformities) and the column A, and write your ansiece used more than once. | o water, wind, or other elements. p. 63) s that best matches the descriptionswer in the space provided. Terms | on in s may |
| restarts when an area is exposed to Eypes of Unconformities (and Expose the term in Column B. Column A, and write your answe used more than once. | o water, wind, or other elements. p. 63) that best matches the descriptionswer in the space provided. Terms olumn A | on in s may Column B |
| restarts when an area is exposed to the term in Column B. Column A, and write your ansie used more than once 17. found between ho 18. where sedimentary | o water, wind, or other elements. p. 63) s that best matches the descriptionswer in the space provided. Terms | on in s may |
| restarts when an area is exposed to the term in Column B. Column A, and write your answer used more than once 17. found between how 18. where sedimentary eroded surface of the column and the column are column as a column and the column are column as a column are col | o water, wind, or other elements. p. 63) I that best matches the description of the space provided. Terms column A prizontal layers and tilted layers by rock layers lie on top of an an anonlayered igneous or meta- | Column B a. disconformity b. nonconformity |

Review (p. 63)

Now that you've finished Section 2, review what you learned by answering the Review questions in your ScienceLog.

Chapter 3, continued

Section 4: Looking at Fossils (p. 68)

1. What does studying fossils help you learn about Coralville?

Fossilized Organisms (p. 68)

2. Fossils are formed in rocks when the _____ body parts of an organism get buried in _____ and are preserved when it turns to

Mark each of the following statements *True* or *False*.

- **3.** _____ Fossils occur only when an organism dies and the remains are trapped between layers of rock.
- 4. _____ Some of our best insect fossils are preserved in hardened tree sap.
- **5.** _____ One example of a fossil formed by mummification is petrified wood.
- **6.** What are frozen fossils?

7. The fossilized remains of some animals have been found in sticky pools called _____.

Other Types of Fossils (p. 70)

_____ is naturally preserved evidence of an' animal's activity.

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| | Chapter 3, continued |
|-----|---|
| 9. | How do animal tracks and burrows become fossils? |
| | <i>3</i> - |
| | |
| | |
| 10. | Coprolites are fossilized feces, which makes them a type of |
| | . (index fossil or trace fossil) |
| 11. | When sediment fills a mold and becomes rock, a |
| | is created. |
| | Which of the following can scientists interpret by examining fossils? (Circle all that apply.) a. how Earth's environment has changed over time b. how plants and animals have changed over time c. how rocks have changed positions d. the Earth's position relative to the Sun What did the marine fossils discovered on top of Canadian mountaintops tell scientists? a. These marine species lived on top of prehistoric mountaintops. b. Ancient humans must have moved these fossil remains. |
| | c. The rocks of the mountaintop were once below the surface of an ocean.d. The fossils were fake. |
| 14. | How do scientists know that fish existed before amphibians? |
| | 42 |
| | |
| | |
| | |
| | 74, |

Class

Date

| The exposed layers represent nearly ears of geologic time. | |
|---|---|
| 3. The layer of the geologic column than do most places on Earth. | |
| Rock Layers and Geologic Time (p. 73) | |
| | |
| | |
| 2. Name two things sciences use to study the history of the Earth. | |
| c. most accurate and highest resolution | |
| a, oldest b, newest | |
| on the top of the stack. | |
| I. vou found a stack of photographs and wanted to make model | |
| Section 5: Time Marches On (p. 73) |) |
| Now that you've finished Section 4, review what you learned by answering the Review questions in your ScienceLog. | |
| Review (p. 72) | |
| years old. | |
| 16. Imagine that y a were rock climbing and found a Pha vos fossil. The rock st counding this fossil is probably | |
| lissed and all a barred bar paidmile then every to ded enisonal. 21 | |
| | |
| | |
| | |
| | |
| know accut the rock layer in which the fossil was found? | |
| Using Fossils to Date Rocks (p. 72) 15. With geologists find an index fossil, what inform do they | |
| Chapter 3, continued | |
| | |

Name