

## Earth and Life History

Name: \_\_\_\_\_

### Superposition & Disturbed Rock Layers

Period: \_\_\_\_\_

Use Chapter 8, Section 2 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

bottom    fault    folding    fossils    horizontal    intrusion    older    sedimentary  
superposition    tilting    top

#### The Principle of Superposition (p.240)

##### Superposition in Rock Layers

1. Look at the layers of rock in Figure 3. The oldest rocks will be at the \_\_\_\_\_ of the layers, and the newest rocks will be at the \_\_\_\_\_ of the layers.
2. What do scientists know about an undisturbed sequence of rock layers?
  - a. Older rocks lie above younger rocks.
  - b. Younger rocks lie under older rocks.
  - c. Younger rocks lie above older rocks.
  - d. Older rocks have eroded away.
3. The principle of \_\_\_\_\_ states that younger rocks lie above older rocks in an undisturbed sequence.
4. Thinking about superposition helps scientists to figure out the relative ages of \_\_\_\_\_.
5. Fossils are usually found in \_\_\_\_\_ rock.
6. Fossils found in a lower rock layer will be \_\_\_\_\_ than fossils found in layers above them.

#### Disturbed Rock Layers (p.241)

7. Gravity makes sediment get deposited in \_\_\_\_\_ layers.
8. Which of the following statements about rock sequences is NOT true?
  - a. Some rock sequences are disturbed by forces within Earth.
  - b. All rock sequences have the oldest layers on top.
  - c. Earth's forces can push rocks into a sequence.
  - d. Some rock sequences can be upside down.



#### Processes That Disturb Rock Layers (p.241)

9. The bending of rock layers that results from stress is called \_\_\_\_\_.
10. If rock layers become slanted, this is called \_\_\_\_\_.

#### Features That Cut Across Rock Layers (p.241)

11. Rocks can shift position along a \_\_\_\_\_, which is a crack in Earth's crust.
12. An \_\_\_\_\_ is created after hot magma forces its way up through other rocks, then cools off.

turn over for more questions

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gap   missing   unconformity

#### Gaps in the Record (p.242)

13. If layers of rock are missing, this makes a \_\_\_\_\_ in the geologic record.

#### Unconformities (p.242)

14. A break or missing part in the geologic record is called an \_\_\_\_\_ .

15. An unconformity represents \_\_\_\_\_ time.

\_\_\_\_\_ 16. Which of the following does NOT form an unconformity?

- a. Deposition stops after a supply of sediment is cut off.
- b. Erosion removes layers.
- c. A break in the geologic record happens.
- d. Gravity causes sediment to form in layers.