

Chapter 8 Earthquakes and Earth's Interior

## Section 8.1 What Is an Earthquake?

(pages 218–221)

*This section explains what earthquakes and faults are and what causes earthquakes.*

### Reading Strategy (page 218)

**Building Vocabulary** As you read this section, write a definition for each vocabulary term in your own words. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.


Vocabulary	Definition
earthquake	a.
fault	b. fracture in Earth where movement has occurred
focus	c.
epicenter	d.

1. Circle the letter of the approximate number of major earthquakes that take place each year.

- a. about 50                      b. about 100                      c. about 3000

### Earthquakes (pages 218–219)

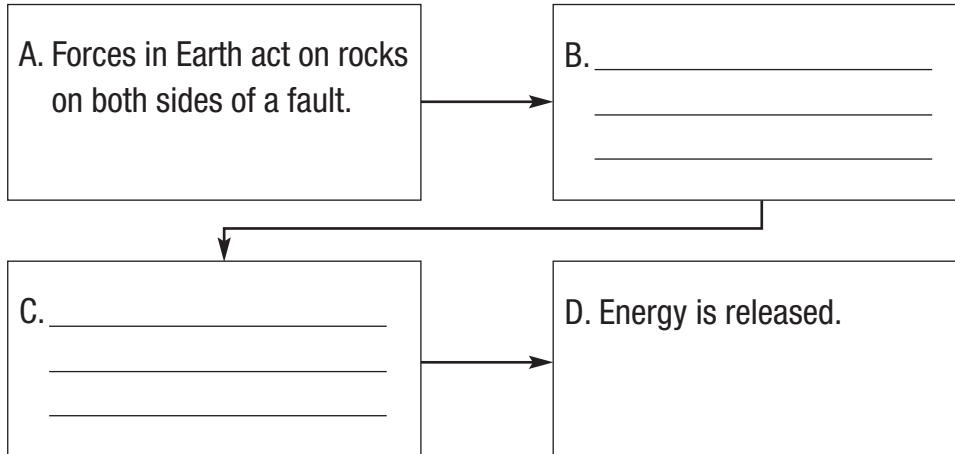
*Match each description with its earthquake feature.*

Description	Earthquake Feature
_____ 2. energy that travels in all directions from the earthquake origin	a. epicenter
_____ 3.  fracture where movement has occurred	b. focus
_____ 4. surface location directly above where an earthquake originates	c. seismic wave
_____ 5. point within Earth where an earthquake starts	d. fault

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**The Cause of Earthquakes (pages 219–221)**

- 6. Is the following sentence true or false? It was not until after the 1906 San Francisco earthquake was studied that the actual cause of earthquakes was understood. \_\_\_\_\_
- 7. Complete the flowchart to show the sequence of events that occur when rocks are deformed along a fault.



- 8. The \_\_\_\_\_ hypothesis states that when rocks are deformed, they bend and then break, releasing stored energy.
- 9. Is the following sentence true or false? Most earthquakes occur along existing faults. \_\_\_\_\_
- 10. Circle the letter of small Earth movements that occur following a major earthquake.
  - a. foreshocks                      b. slippage                      c. aftershocks
- 11. What is fault creep? \_\_\_\_\_

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