

Chapter 8, continued

Are You Prepared for an Earthquake? (p. 209)

Read pages 209–210. Then answer the following questions.

15. Think of places you go during the day. What would you do if you were in one of these places when an earthquake happened?

Review (p. 210)

Now that you've finished Section 3, review what you learned by answering the Review questions in your ScienceLog.

Section 4: Earthquake Discoveries Near and Far (p. 211)

1. For what other research have scientists used seismic waves?

Discoveries in Earth's Interior (p. 211)

2. By studying how seismic waves bend, scientists have learned a lot about Earth's interior. True or False? (Circle one.)

Use the diagram on page 211 to answer the following questions.

3. The shadow zone suggested that Earth has a solid core. True or False? (Circle one.)
4. Which of the following describes the Moho?
- a. It marks the boundary between Earth's mantle and crust.
 - b. It is an area where seismic waves slow down as they pass through it.
 - c. It is an area where no seismic waves can be detected.
 - d. It marks the area between Earth's mantle and inner core.
5. The Earth's inner core is _____ .
(solid or liquid)

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Quakes and Shakes on Other Cosmic Bodies (p. 212)

6. The first seismic testing on another cosmic body took place on
- a. Halley's comet.
 - b. Mars.
 - c. the Moho.
 - d. the moon.
7. Explain the difference between seismic waves on Earth and those on the moon. What does this show?

8. When *Viking 1* landed on Mars with a seismograph, the planet was so _____ that the seismograph worked mainly as a _____ .
(windy or cold, wind gauge or temperature gauge)

9. How do scientists measure seismic waves on the sun?

10. Seismic waves on the sun are caused by powerful magnetic disturbances in the sun. True or False? (Circle one.)

11. Sunquakes

- a. are weaker than earthquakes.
- b. last longer than earthquakes.
- c. are stronger than earthquakes.
- d. don't last as long as earthquakes.

Review (p. 213)

Now that you've finished Section 4, review what you learned by answering the Review questions in your ScienceLog.