

Chapter 8 Earthquakes and Earth's Interior

Section 8.3 Earthquake Hazards

(pages 228–232)

This section discusses damage caused by earthquakes and explains how earthquakes are predicted.

Reading Strategy (page 228)

Monitoring Your Understanding Preview the Key Concepts, topic headings, vocabulary, and figures in this section. List two things you expect to learn. After reading, state what you learned about each item you listed. 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.

What I Expect to Learn	What I Learned
a.	b.
c.	d.

Causes of Earthquake Damage (pages 228–230)

1. Define liquefaction.

2. Is the following sentence true or false? Most earthquakes generate tsunamis. _____

3. The ground vibrations caused by seismic waves are called _____.

4. During an earthquake, violent shaking can cause soil and rock on slopes to move, resulting in _____. Circle the correct answer.

waves tsunamis landslides

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5. Complete the table about tsunamis.

Tsunamis		
Definition	Causes	Areas Protected from Tsunamis by Warning System
	a. b. can also be triggered by underwater landslides or volcanic eruptions	a. b. after deadly 2004 tsunami, a similar system planned for Indian and Atlantic oceans

Reducing Earthquake Damage (pages 231–232)

6. Three factors that affect the degree of damage that occurs to structures as a result of earthquakes are _____, nature of the material on which the structure is built, and design of the structure.
7. Circle the letter of the structure that is least likely to be damaged in a major earthquake.
- a. reinforced steel-frame building
 - b. nonflexible wood-frame building
 - c. unreinforced stone building
8. Is the following sentence true or false? Scientists are able to make accurate long-term earthquake predictions based on their understanding of how earthquakes occur. _____
9. What do scientists call an area along a fault where no earthquake activity has occurred for a long time? _____