

REVIEW AND REINFORCEMENT GUIDE
CHAPTER 2 ■ *Earthquakes and Volcanoes*

SECTION

2-1 Earthquakes

(pages 32-40)

KEY CONCEPTS

▲ An earthquake is the shaking and trembling that results from the sudden movement of part of the Earth's crust.

■ **Building Vocabulary Skills: Relating Terms**

Explain how the terms in each pair or group are related.

1. Earthquake: tsunami

2. Focus: epicenter

3. Seismic wave: earthquake

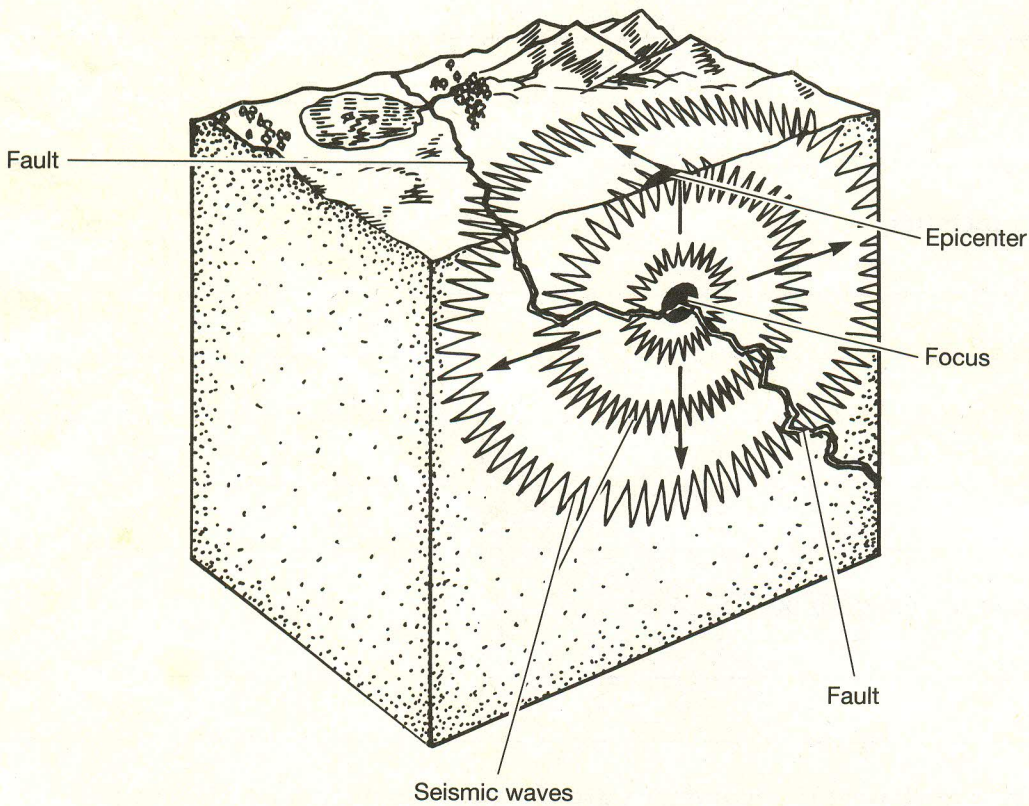
4. Primary wave (P wave): secondary wave (S wave): surface wave (L wave)

5. Seismograph: seismogram: seismologist: Richter scale

■ **Characteristics of Earthquakes: Illustrating the Main Ideas**

Part 1

The following diagram shows the relationships that exist between a fault in the Earth's crust and the epicenter and focus of an earthquake. Study the diagram, then answer the questions.



1. What relationship exists between the focus of an earthquake and a fault in the Earth's crust? _____

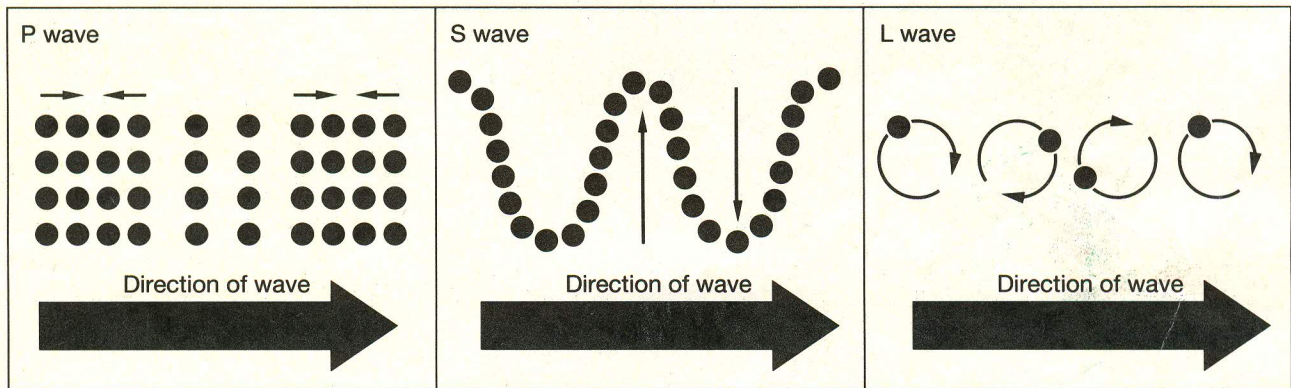
2. What relationship exists between the focus of an earthquake and the epicenter?

3. What relationship exists between the epicenter of an earthquake and a fault?

4. Where does the energy created by an earthquake originate? In what direction does it travel?

Part 2

Each of the following drawings shows a different type of seismic wave. Study the drawings, then answer the questions.



1. Describe the movement of particles caused by a P wave.

2. Describe the movement of particles caused by an S wave.

3. Describe the movement of particles caused by an L wave.

4. P waves travel the fastest and L waves travel the slowest of all earthquake waves. From what you see in the drawings, can you think of a reason for this?
