

CHAPTER REVIEW**Chapter 18****Earthquakes and Volcanoes****I. Vocabulary Review**

In the blank, write the word or words that best complete the sentence.

1. Molten rock material beneath Earth's surface is called _____.
2. Molten rock that reaches Earth's surface is called _____.
3. A volcano produced by alternating quiet and explosive eruptions is a _____ volcano.
4. A volcano that is NOT currently active is referred to as _____.
5. An instrument invented hundreds of years ago to record earthquake vibrations is the _____.
6. The measure of an earthquake's strength is its _____.
7. The scale used to describe earthquake magnitude is the _____ scale.

II. Concept Review

If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.

- _____ 8. The vibrations in Earth's surface caused by an earthquake travel in only two directions.
- _____ 9. All volcanoes originate when hot melted rock material is forced upward to Earth's surface.
- _____ 10. The sides of shield volcanoes are formed of layers of lava alternated with layers of cinders and ash.
- _____ 11. Most earthquakes are very destructive.
- _____ 12. Early in Earth's history, volcanic activity was more widespread than it is today.
- _____ 13. Earthquakes that measure 5.0 or more on the Richter scale are more frequent than those that measure 4.9 or less.
- _____ 14. Eighty percent of earthquakes occur along the Pacific "Ring of Fire."
- _____ 15. The amplitude of peaks on a seismograph represents the frequency of earthquake vibrations.
- _____ 16. An important factor influencing the amount of damage caused by an earthquake is the type of ground on which structures are built.
- _____ 17. An earthquake measuring 7.5 on the Richter scale is about twice as strong as one measuring 5.5.

Chapter Review 18 (continued)

III. Skills/Process Review

Tsunami			
Point	Ocean depth	Wave speed	Wave amplitude
A	4000 m	200 m/s	0.6 m
B	2000 m	100 m/s	2 m
C	1 m	10 m/s	30 m

Answer the following questions in phrases or complete sentences.

- 18. The table shows data about a tsunami wave as it travels from its point of origin to shore. At which point is the wave height smallest? _____
- 19. At which point is the tsunami wave close to land? _____
- 20. Predict what would happen to the wave’s speed if the ocean depth were 6000 m. _____

- 21. Use the data in the table to explain what happens to a tsunami as it approaches land. _____

IV. EYV Review

- 22. **Technology Connection: Earthquake-Proof Construction** Your aunt and uncle have just moved to the Los Angeles area in California. They are thinking about building a new brick house. What might you tell them. _____

