

Chapter 6 Earthquakes & Volcanoes

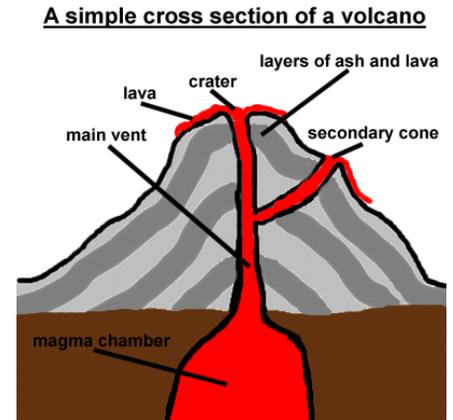
Directions: Answer the following in **COMPLETE** sentences on notebook paper.

Section 1 - Pages 180-186

1. What is crustal stress?
2. Draw 3 pictures to illustrate the three types of crustal stress. Label (name) the diagrams.
3. In your diagrams above, pick one and label the fault.
4. Where do most faults occur?

Section 2 - Pages 187-193

5. How many earthquakes happen each day worldwide?
6. What is an earthquake?
7. What causes earthquakes? Write at least 3 sentences to explain.
8. Where do most earthquakes occur? (What kind of boundary?)
9. What is the difference between a focus and epicenter?
10. Draw a picture which shows the focus and epicenter. Label the diagram.
11. What is a seismic wave and where do they start?
12. Can P waves travel through both liquids and solids?
13. Can S waves travel through both liquids and solids? Explain.
14. Which seismic wave do you think is the most destructive? Explain.
15. What is a seismograph?
16. If an earthquake has a magnitude below 3 would you notice it?
17. If an earthquake has a magnitude between 3 and 5 what kind of damage would it cause?
18. Earthquakes with a magnitude between 5-6 cause what kind of damage?
19. What would be the magnitudes of earthquakes that cause a lot of damage?

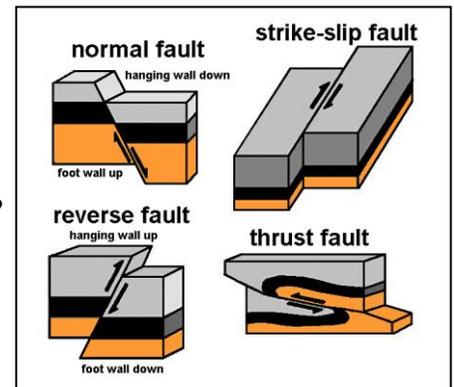


Section 3 – Pages 196-201

20. What is the difference between a seismograph and a seismogram?
21. Can geologists accurately predict when and where earthquakes will strike?

Section 4 –Pages 204-207

22. Define the following four words: volcano, magma, lava, ring of fire
23. Are there more active volcanoes on land or in the ocean?
24. Explain where volcanic belts form and include the two types of boundaries they form in.
25. Explain how the Hawaiian Islands (volcanoes) formed. (Are they formed at a boundary or in the middle of the Pacific Plate?) Explain.



Section 5- Pages 209-216

26. Name two types of volcanic rocks.
27. Explain what causes a volcanic eruption. (Explain what causes the magma to rise to the surface of the earth.)
28. Draw a volcano. Color and label the following 6 features on your diagram: CRATER / VENT / PIPE / SIDE VENT / LAVA FLOW / MAGMA CHAMBER
29. Describe the following types of volcanoes and draw a picture to represent each volcano type. Use Internet.
 - a. STRATO-CONE OR STRATOVOLCANO
 - b. CINDER CONE VOLCANO
 - c. SHIELD VOLCANO
30. Define each of the following volcanoes: extinct volcano / dormant volcano / active volcano

Example:

11. What is a seismic wave and where do they start?

-vibrations that travel through Earth carrying the energy released during an earthquake.

-seismic waves start at the focus

or

11. Seismic waves are vibrations that travel through Earth carrying the energy released during an earthquake and they originate at the focus.

(I prefer complete sentences.)