

Earthquakes Study Questions

Section 6.1

1. Describe the elastic rebound theory.
2. What are aftershocks?
3. What is the focus?
4. List the three depths of earthquakes and tell how deep they occur.
5. Which type of depth is most common?
6. Why do earthquakes not occur below 650 KM?
7. What is an epicenter?
8. Why don't deep and intermediate focus earthquakes cause damage at the epicenter?
9. List the three major earthquake zones.
10. What is a fault?

Section 6.2

1. How do scientists study the inside of the earth?
2. Name the three types of waves and tell:
 - When they are recorded (1st, 2nd, last)
 - What materials they can travel through
 - What the wave looks like
3. Why can't S-waves be detected on the other side of the earth?
4. What is MOHO?
5. What are shadow zones and why do they occur?

6. How do scientists determine how far the epicenter is from a recording station?
7. How many recording stations are needed to locate an epicenter? WHY?
8. What are the Richter and Mercalli scales and what do they measure?
9. Which Richter magnitudes can't be felt? Which are strong?

Section 6.3

1. During earthquakes, what are injuries the result of?
2. What does building destruction depend on?
3. What are tsunamis and what can cause them?
4. How do scientists predict earthquakes?

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