

## Earthquakes Quiz PDF

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**What is the recommended safety action during an earthquake?**

- Run outside
- Stand under a doorway
- Drop, Cover, and Hold On
- Stay in bed

**What is the primary cause of most earthquakes?**

- Volcanic eruptions
- Tectonic plate movements
- Mining activities
- Weather changes

**How do early warning systems help mitigate the impact of earthquakes?**

**Which type of seismic wave is the fastest?**

- Surface waves
- Secondary waves (S-waves)
- Primary waves (P-waves)
- Love waves

**Explain how tectonic plate movements cause earthquakes.**

**Which technological tools are used in modern seismology? (Select all that apply)**

- Seismometers
- Accelerometers
- Barometers
- Early warning systems

**Describe the differences between P-waves and S-waves in terms of their properties and movement.**

**Which scales are used to measure the intensity and magnitude of earthquakes? (Select all that apply)**

- Richter scale
- Mercalli scale
- Beaufort scale
- Moment magnitude scale (Mw)

**What type of wave causes the most damage during an earthquake?**

- P-waves
- S-waves
- Surface waves
- Rayleigh waves

**Which of the following are effects of earthquakes? (Select all that apply)**

- Ground rupture
- Tsunami
- Soil liquefaction
- Increased rainfall

**Which instrument is used to detect and measure earthquakes?**

- Thermometer
- Barometer
- Seismometer
- Anemometer

**Discuss the impact of the 2011 Tohoku earthquake on Japan's infrastructure and disaster preparedness.**

**What are some methods to prepare for an earthquake? (Select all that apply)**

- Securing heavy items
- Creating emergency plans
- Building underground shelters
- Having emergency kits

**What are some common features of earthquake-prone zones? (Select all that apply)**

- Located along tectonic plate boundaries
- High volcanic activity
- High altitude
- Presence of fault lines

**Which of the following are types of seismic waves? (Select all that apply)**

- P-waves
- S-waves

- X-waves
- Surface waves

**On which scale is the magnitude of an earthquake commonly measured?**

- Beaufort scale
- Richter scale
- Fujita scale
- Kelvin scale

**In what ways can urban planning and building codes reduce the damage caused by earthquakes?**

**Which region is known as the most earthquake-prone area in the world?**

- The Sahara Desert
- The Pacific Ring of Fire
- The Amazon Rainforest
- The Arctic Circle

**Which historical earthquake occurred in 1906?**

- The San Francisco earthquake
- The Haiti earthquake
- The Tohoku earthquake
- The Lisbon earthquake

**What are the key differences between the Richter scale and the moment magnitude scale (Mw)?**

