Name _____

Shaking It Up: Different Types of Seismic Waves from Earthquakes

Multiple Choice Questions

1. What is the first type of seismic wave generated during an earthquake?

a) Surface waves

b) Secondary waves (S-waves)

c) Primary waves (P-waves)

d) Rayleigh waves

2. Which type of seismic wave is responsible for side-to-side shaking motion during an earthquake?

a) P-waves

b) Rayleigh waves

c) S-waves

d) Love waves

3. Which of the following can P-waves travel through?

a) Only solids

b) Only liquids

c) Solids, liquids, and gases

d) Only gases

4. What type of seismic wave creates both rolling and up-and-down motions on the Earth's surface?

a) Love waves

b) P-waves

c) S-waves

d) Primary waves (P-waves)

5. Which seismic waves typically arrive first at distant locations from the earthquake's epicenter?

a) Surface waves

b) Primary waves (P-waves)

c) Love waves

d) Secondary waves (S-waves)