

Seismic Waves

- Waves of energy caused by the sudden breaking of rock within the earth or an explosion.
- Energy that travels through the earth.

Body Waves

P Waves (compression wave)

- Primary wave
- Fastest kind of seismic wave
- Can move through solid rock and fluids
- Pushes and pulls the rock it moves through

Body Waves

S wave (transverse wave)

- Secondary wave
- Second wave you feel in an earthquake.
- Slower than a P wave
- Can only move through solid rock
- Moves rock up and down, or side-to-side.

Surface Waves

Surface Waves

Love Waves

- Fastest surface wave
- Moves the ground from side-to-side.

Surface Waves

Rayleigh Waves

- The other kind of surface wave is the **Rayleigh wave**.
- Roll along the ground just like a wave.
- Moves the ground up and down, and side-to-side in the same direction that the wave is moving.
- Most of the shaking felt from an earthquake is due to the Rayleigh wave