

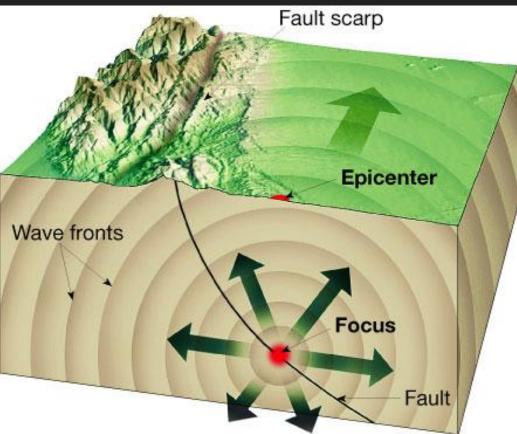
Understanding Earthquakes

Raspberry Shake Lesson #2



What happens when an earthquake occurs?

- Energy is released from a focal point
- Quakes occur along faults, or cracks in the earth's crust
- The **focus** is where the earthquake starts
- The **epicenter** is the location directly above the focus



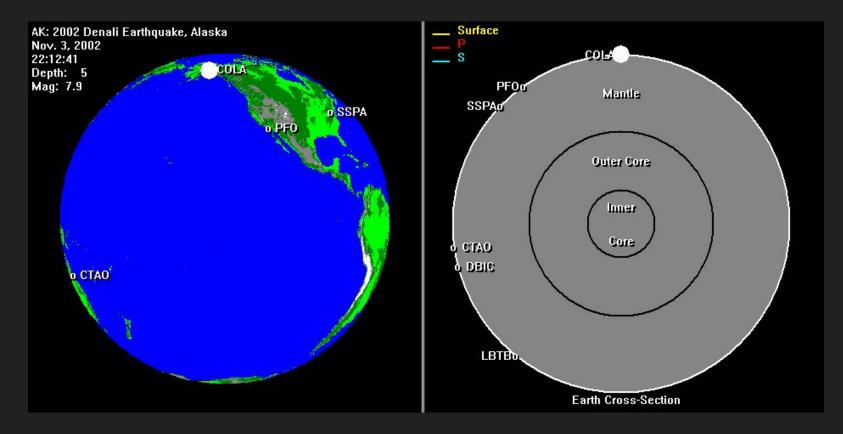


Where does the Earthquake energy come from?

- The earth's crust is always moving
- That movement builds up pressure
- The pressure is built up in areas that have faults
- When the pressure is too much, the rock breaks/slips
- That energy releases as acoustic wave energy!

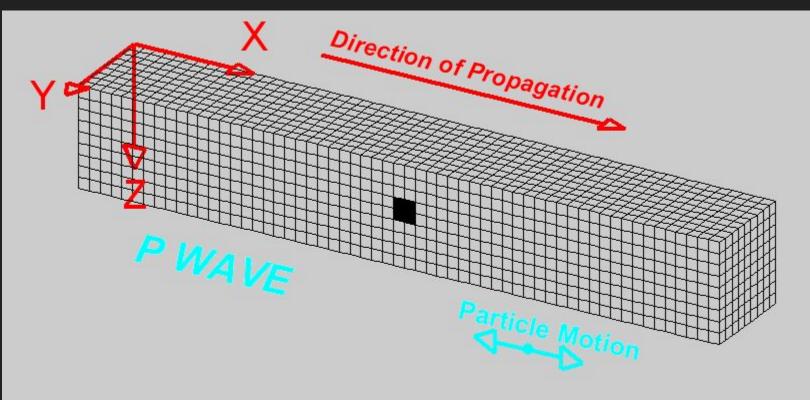


How earthquake waves travel



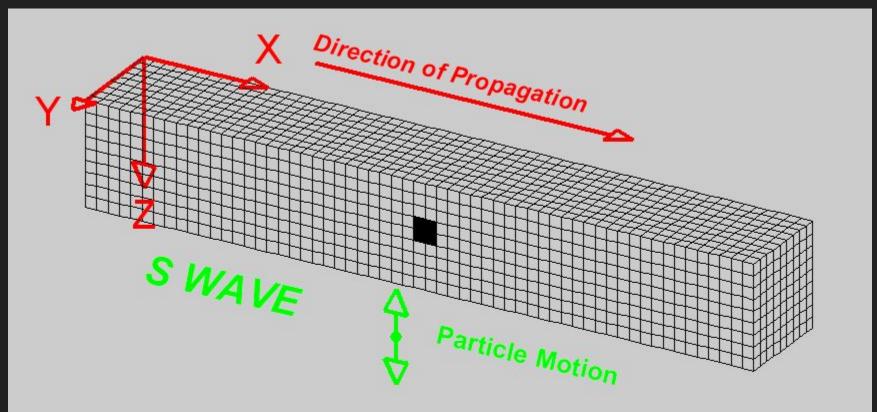


P - Waves



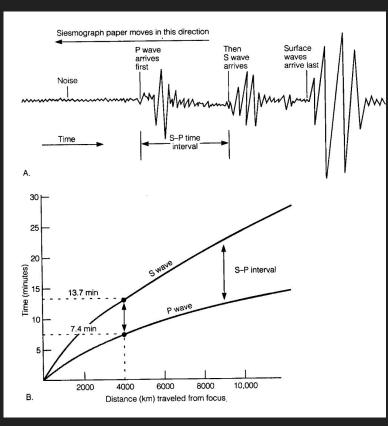


S - Waves

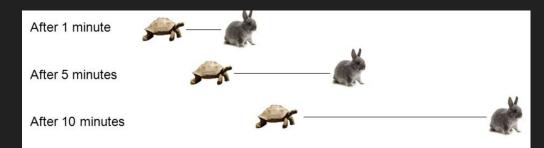




Finding the Distance

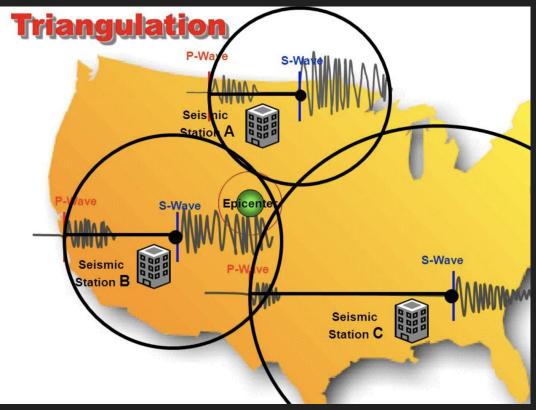


- P-waves travel much faster than S-waves
 - They both start at the same place, at the same time
- The longer the interval between their arrival times, the farther away the starting point





Locating Earthquakes: Triangulation





Now let's practice! Go to locator.raspberryshake.net

