

Handout 6, #3

- a. Earthquake waves move out in all directions.
- b. P-waves are called push-pull waves because they push and pull the material (medium) they move through.
- c. S-waves are called side-to-side waves because they move the material (medium) they move through from side to side.

Handout 6, #3d

- When energy from a wave travels through earth's particles, the particles move from and back to their resting place based on the type of wave that hits them. If enough energy is present, the particles can change their resting place. This would be "damage" caused to the particles.

Handout 6, #3e

- Earthquake waves cause changes to the particles in the geosphere. They can move/shift them to new locations. They can separate particles from others, creating faults (cracks) in the geosphere.
- Plus, the waves are evidence of change in the geosphere. The waves are created when the geosphere shifts, releasing the energy to create the wave.