Human Wave
K-12

Key Points:

-An earthquake causes different types of energy to radiate from the epicenter

-The P and S waves are the first two to arrive at any specific point

-P waves and S waves have different motions and shake the earth differently as they travel through it

-S waves do not travel through liquid

Notes:

SOLID

P wave:

-Compressional motion is parallel to direction of propagation

-shoulder to shoulder with arms around shoulders because solid molecules are tightly bound

-took time for motion to propagate

-each person was subjected to a brief deformation, but no one moved from their original position

-motion of each person was in the direction of wave propagation

S wave:

-Shear motion is perpendicular to direction of propagation

LIQUID

-Arms not around each other because liquid molecules are not tightly bound

-P wave propagates, but S wave does not because loose bonding of molecules does not support shearing motion