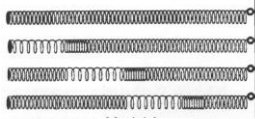


Topic: Earthquakes

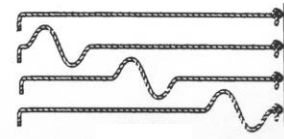
Aim:

seismic waves - energy waves produced by an earthquake that travel through the Earth

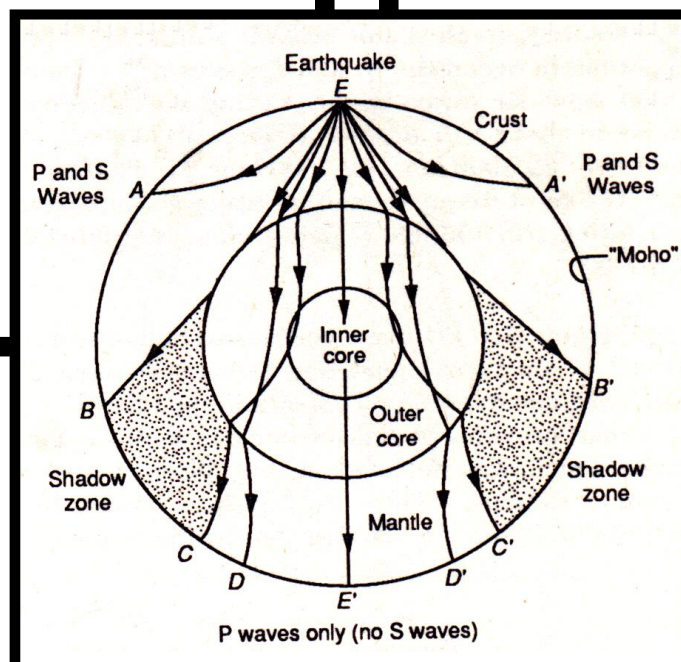
1.



2.



If an earthquake occurs at point E, the waves of energy travel through the Earth. Notice that on the other side of the Earth only P-waves are detected because S-waves cannot travel through the liquid outer core



The waves of energy are bent (refracted) as they travel through substances of different densities.

Shadow zones are areas that no earthquake waves can be detected by seismographs because the P-waves are bent away from those areas and S-waves have already been absorbed by the liquid outer core.