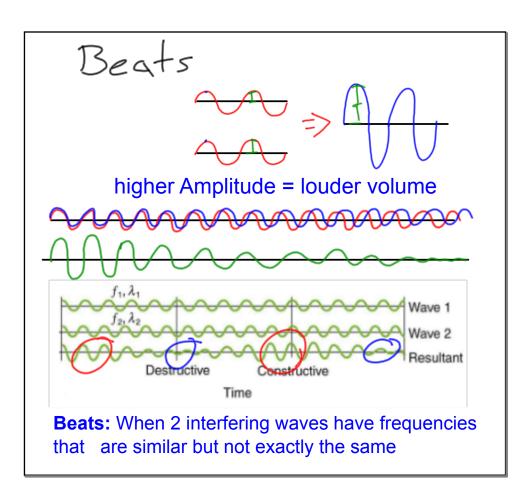
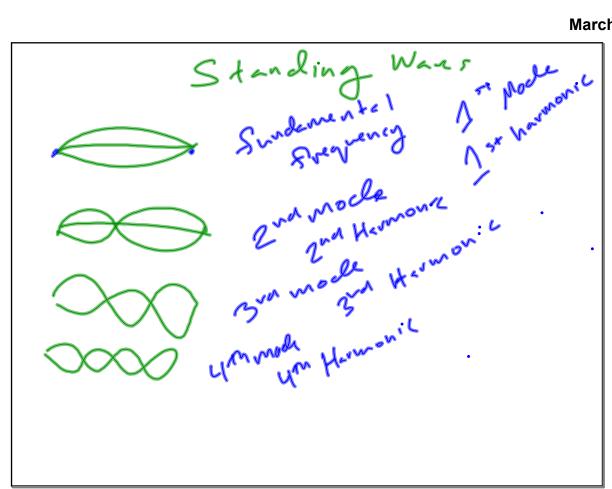
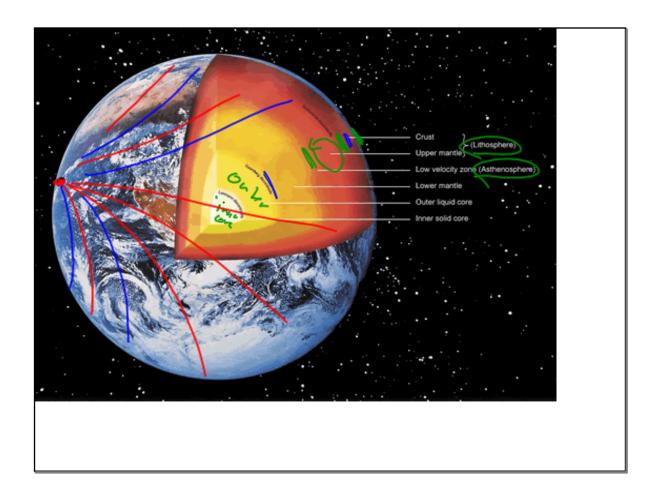
Resonance

When something is driven (pushed) at the same frequency as its fundamental frequency.

EX: a good push on a swing







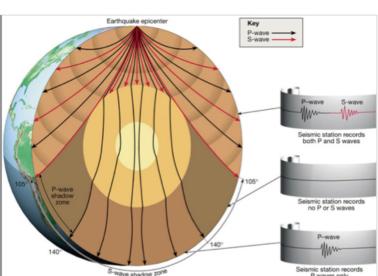
Earthquekes

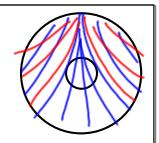
Longitudinal \*\*\*

can travel through all types of

malter (solids, liquids, gasses)

Transverse



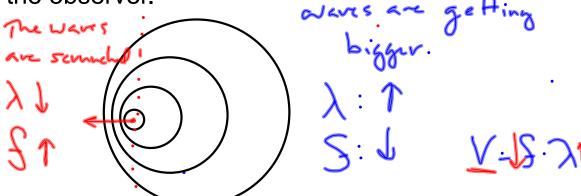


S waves only travel through solids so when an earth quake happens the other side of the earth only receives P waves but not the S waves, so that proves that the middle of the earth is liquid

Primary waves can go through the core but secondary wave go through solids and no more.

## Doppler Effect:

apparent change in the frequency (pitch) of a wave due to the relative motion between the source and the observer.



The only way to change the velocity of a wave is to change the material it is moving through.

