

What do waves transfer?
How do sound waves transfer this?

How does light travel?
Light travels faster/slower than sound

Draw and label a transverse wave

Draw and label a longitudinal wave

What is it called when waves interfere with each other? How might this affect the wave?

Waves

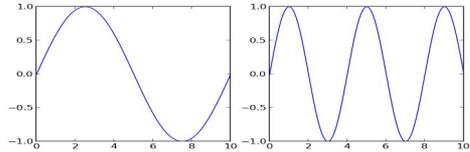
Pressure waves and uses

Sound is a Pressure Wave

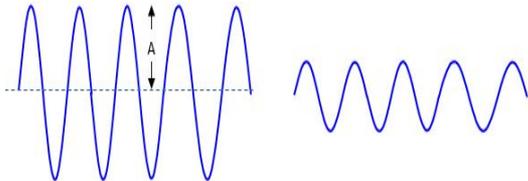


Draw and label a diagram to show reflection of light at a mirror.

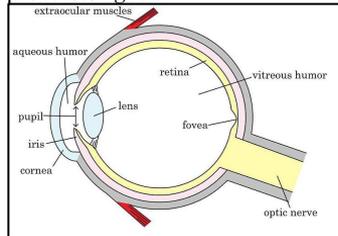
Pitch: High pitch notes have a frequency
Low pitch notes have a frequency
Which is the high and low pitch notes below?



Loud notes have a amplitude
Quiet notes have a Amplitude
Which is the loud and quiet notes below?



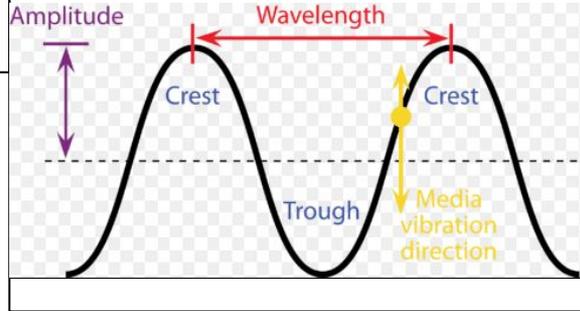
Describe how the eye focuses and detects light:



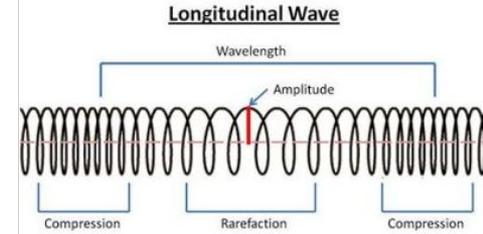
What do waves transfer? **ENERGY**
 How do sound waves transfer this?
 Sounds are produced by vibrating particles.

How does light travel? **In straight lines**
 Light travels **faster**/slower than sound

Draw and label a transverse wave



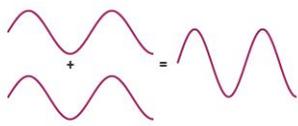
Draw and label a longitudinal wave



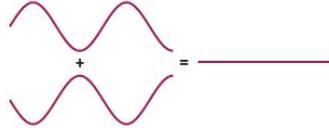
What is it called when waves interfere with each other? How might this affect the wave?

SUPERPOSITION.

THEY MAY CANCEL EACH OTHER OUT OR THEY MIGHT ADD TO EACH OTHER



Adding two waves together

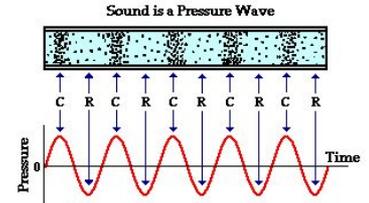


Cancelling out two waves

Waves

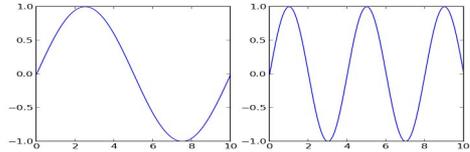
Pressure waves and uses

All pressure waves are mechanical waves (use particles) and cause vibrations and changes in pressure. Sound and Earthquakes waves are example of pressure waves.

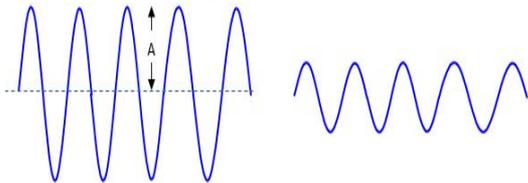


Sound is a Pressure Wave

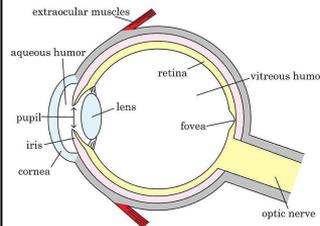
Pitch: High pitch notes have a**HIGH**..... frequency
 Low pitch notes have a**LOW**..... frequency
 Which is the high and low pitch notes below?



Loud notes have a**HIGH**..... amplitude
 Quiet notes have a**LOW**..... Amplitude
 Which is the loud and quiet notes below?



Describe how the eye focuses and detects light:



For distant objects the ciliary muscles relax and the suspensory ligaments pull tight making the lens pull thin - the light doesn't bend as much.
 For close objects the ciliary muscles contract allowing the lens to go fat, thus bending the light more.

Draw and label a diagram to show reflection of light at a mirror.

