What is Sound?

Sound is the movement of compression waves (longitudinal waves) histing our ears. These compression waves are alternating high and low pressure areas. The air molecules vibrate back and forth, but don't move.



Speakers imitate scounds by positing sir and causing vibrations.

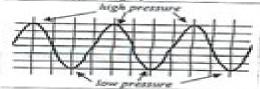
Second Wave Moving Through Air Molecules



Tiny bairs inside the cachles (inser car) translate air pressure into efectrical impulses that can be read by the brain.



How we graph sound:



Sound monds a mention to travel through. Sound country travel through the vacuum of space. Space it afters (no matter what you hear in the movies).



Frequency - Pitch

We hear the frequency of sound as pitch. A higher frequency we hear as a higher pitch. A lower frequency we hear as a lower pitch.

Higher Frequency = Higher Pitch

Prequency (f)	Wavelength (2	Source
20 Hz	17 m	numble of thunder
100 Hz	3.4 m	bass guitar
2,000 Hz	17 cm	fire truck siren
5,000 Hz	7 cm	highest note of piago
10,000 Hz	3.4 cm;	whine of a jet turbine

Eliphants and submarines use infratantic sound (too low to hear) to continuinicate

over long distances. Very low frequencies (very bass) travel for very long distances and can penetrate through water (just like thru cars).

Dog whistles use adtransate thequencies frequencies above busing bearing, but perfect for dog ears!



Humans can hear frequencies that are between 20 Hz and 20,000 Hz!

Amplitude = Loudness

We hear pressure (the amplitude) of sound as Iondress. It takes more energy to create a louder sound. Too loud of a sound can cause deafners.

Loudness is measured in decibels (dB)

10 - 15 dB	A quiet whisper, 3 feet away
30 dB	A house in the country
65 dB	Ordinary conversation, 3 feet away
70 JB	City traffic
90 dB	A jackhammer, 10 feet away
120 dB	The threshold of physical pain from losslness

A +10 dB change we hear as twice as loud.

A 30 dB sound is twice as loud as a 20 dB second.

A -10 dB change we hear as half as loud.

A 30 dB sound is half as found as a 40 dB sound.

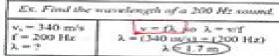
Speed of Sound (v.)

The speed of sound in air is about 340 m/sec (660 mph).

The speed of sound changes. Hotter (faster) molecules conduct sound faster. Also, just as best travels faster in solids, so does sound.

Materials V (m/sec)	
Alir	3-00
Helium	965
Water	1.530
Wood	2900
Gold	3240
Steel	5940

You can use $v_i = f\lambda_i$ to find frequency or wavelength. AND use S = D/T to find distance or time (using v_i for S).



Ex. If you hear a sound I seconds after you see the motion. How far away is it?	
Vs = 340 m/s	v _i = D/T so D = v _i T
T = 3 sec	D = (340 m/s3.X (3 sec)
D = ?	D € 1020 m)



Motion faster than sound is called supersonic. Supersonic planes give their speed in multiples of Mach (1 X the speed of sound).

Mach 1 = 340 m/s (660mph) Mach 2 = 680 m/s (1320 mph)

A samic hoose is caused by an object breaking through the sound barrier. Supersonic planes, butlets, and bullwhips all make sonic booms.

Fairfield Chapter 13 Answer Sheet

Clemens Wendtner

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