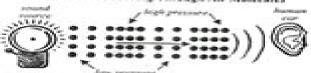
What is Sound?

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.

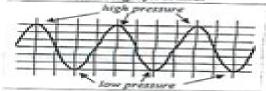
Sound Were Moving Through Air Molecules



Timy bairs inside the cachles (inner car) translate air pressure inno efectrical impulses that can be read by the brain.



How we graph sound:



Sound monds a mention to travel through. Sound castnot travel through the vacuum of space. Space or aftert (no matter what you here 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

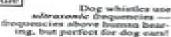
Prequency (f):	Wavelength (A). Source		
20 Hz	17 m	numble of thunder	
100 Hz	3.4 m	bass guitar	
2,000 Hz	17 cm	fice truck sizen	
5,000 Hz	7 cm	highest note of piano	
10,000 Hz	3.4 cm;	whine of a jet narbine	

Elephants and submarines use Any according to the (too low to bear

(too low to hear)
to continuaticate
distances. Very low
to (very bass) travel for

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

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





Amplitude = Loudness

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

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 traffle			
90 dB	A jackhammer, 10 feet away			
120 dB	The threshold of physical pain from loudness			

A +10 dB change we hear as toud.

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.)

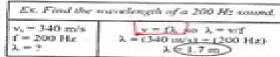
cause deafmess.

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.

Material	M_{\bullet} (m/see)
Altr	3-00
Deliver	965
Water	1.530
Wood	2000
Gold	3240
Stoel	5949

You can use $v_i = f\lambda$, 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 mo	tion. How far away ts it?
Vic = 340 m/s	v _i = D/T so D = v _i T
T = 3 sec	D = (340 m/s) 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

Thomas Griffiths

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