

Topics in sound

Sine wave
Parts of a wave
Types of waves
 Transverse
 compressional
 Water waves
Speed of sound
 in air at room temp
 in water
 in solids, like steel

Mach speed
sound barrier
shock waves
sonic boom
Range of human hearing
 20 - 20,000 Hz
Ultra sonic
Infra sonic
Super sonic
Sub sonic

Factors that affect
Pitch in a string
Beats + Beat frequency

SONAR

$$v = \lambda f$$

frequency and Pitch

Echos

binaural sound

Tuning Forks

Amplitude is affected by the
Force used to make the sound

Doppler effect
sound Intensity (dB)

How far away is lightning?

Constructive Interference

destructive Interference

Speed of sound problems:
echo, delay in sound.

resonance

Test Tuesday or
Wednesday