Vocabulary: Properties and Behavior of Sound

Vocabulary

sound wave:	A mechanical longitudinal wave produced by a vibrating object and which is audible.
mechanical wave:	 A wave that requires a medium in which to travel. Most waves are mechanical waves One important exception: electromagnetic waves
medium:	Any matter (solid, liquid, gas, or plasma) that has molecules to transport a wave's energy.
longitudinal wave:	A wave in which the particles of the medium move back and forth in the same direction as the wave. Sound waves are longitudinal waves.
loudness:	Your perception of the energy of a sound. The loudness of a sound depends on two factors: the amount of energy it takes to make the sound and the distance from the source of the sound.
decibel:	A unit of measurement for sound that measures the loudness, or volume, of the sound waves.
intensity:	 The rate at which a wave carries energy through a given area. A wave's intensity corresponds to its amplitude A sound wave of greater intensity sounds louder
amplitude, A	The maximum distance a wave moves from its resting position, or undisturbed state.
pitch:	The perceived highness or lowness of a sound, depending on the frequency of sound waves.Sounds with higher pitch have higher frequencies
frequency, f:	The number of waves that pass a given point per second.
Doppler effect:	 The change in frequency of a wave as its source moves in relation to an observer. in sound waves, the change in frequency is heard as a change in pitch when the source is moving toward the observer, the sound appears to have a higher pitch when the source is moving away from the observer, the