

acoustics

Study of how sounds interact with each other and the environment

decibel

A unit used to measure the loudness of a sound.

density

A ratio that compares the mass of an object to its volume.

Doppler effect

A change in sound frequency caused by motion of the sound source, motion of the listener, or both.

echo

A reflected sound wave

echolocation

A process of using reflected sound waves to find objects

elasticity

Ability for material to bounce back after being disturbed

fundamental tones

The lowest natural frequency of an object

infrasound

Sound waves w/ frequencies below the normal range of hearing

intensity

The amount of energy per second carried through a unit area by a wave

larynx

Area where vocal cords are found also called the "voice box"

loudness

Perception of the energy of a sound.

music

A set of tones and overtones combined in ways that are pleasing to the ear.

over tones

Multiples of the fundamentals of frequency

pitch

A description of how high or low the sound seems to a person.

reverberation

Echoes of a sounds are heard after the sound source stops producing sound waves

sonar

A system transmitting underwater sound waves to locate objects or the sea floor

sonogram

An image formed using reflected ultrasound waves.

ultrasound

Sound with frequency greater than 20,000 cycles per second or 20kHz