

What is Sound?

Definition: a mechanical wave that is an oscillation of pressure transmitted through some medium, composed of frequencies within the range of hearing.

Hosken: Sound is caused by vibrations in air

Generation

Vibrations need to be initiated

blowing on a reed

plucking a string

buzzing into a mouthpiece

Striking a drumhead

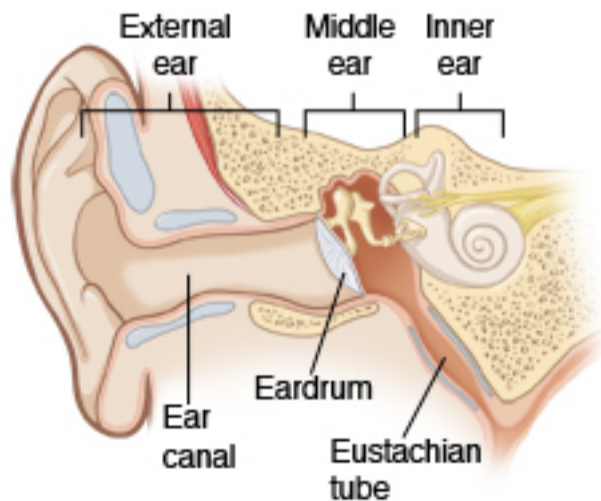
Propagation

Once a vibration is started, it travels through medium (air, water, some other substance).

Compression and Rarefaction

Tasteful Bill Nye Demonstration of Waves (Skip to 14:02)

Reception



The Ear

Psychoacoustics and Localization

Extremely boring video summary: