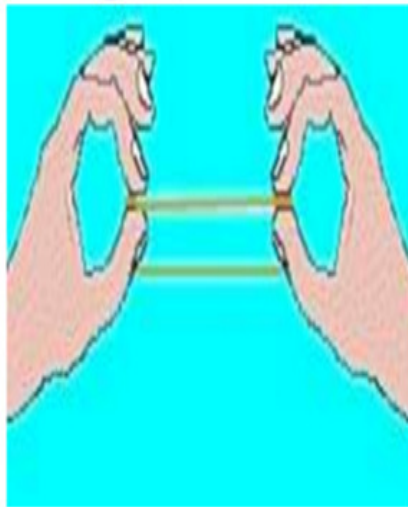


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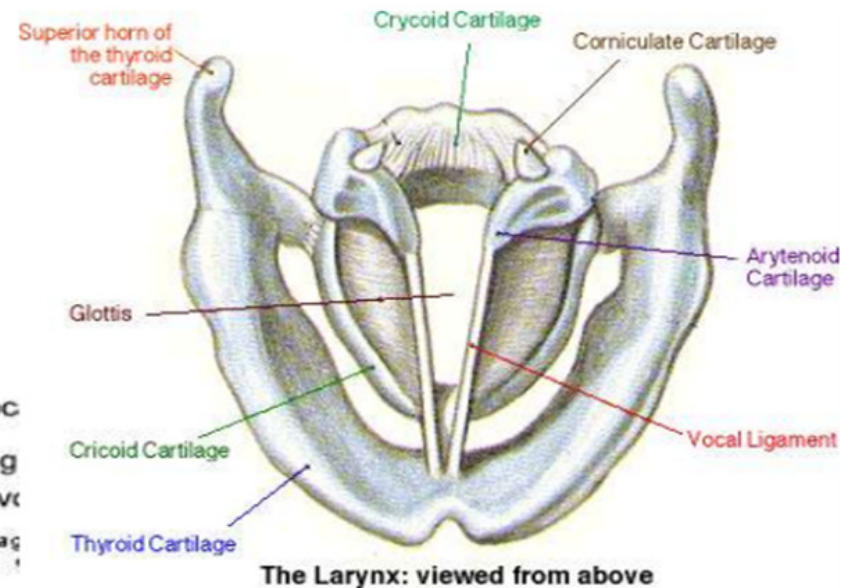
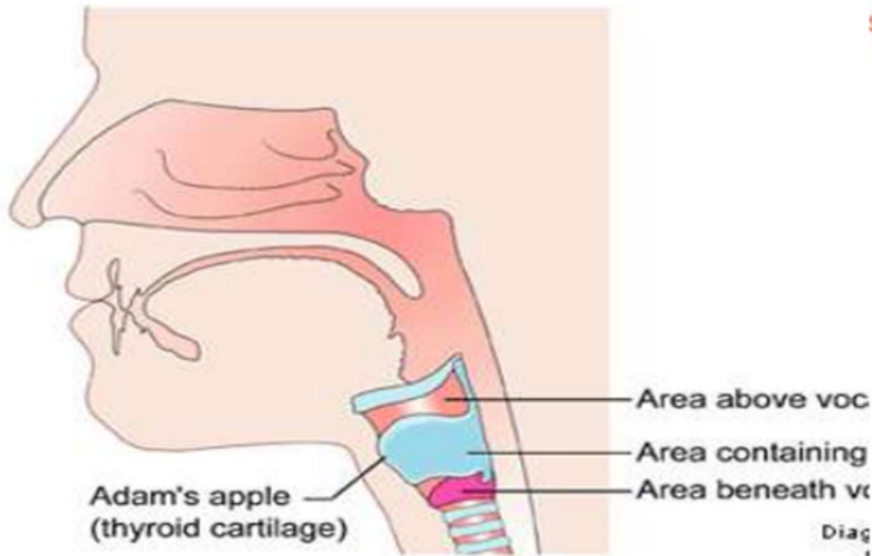
SOUND

Sound is produced by vibrating objects

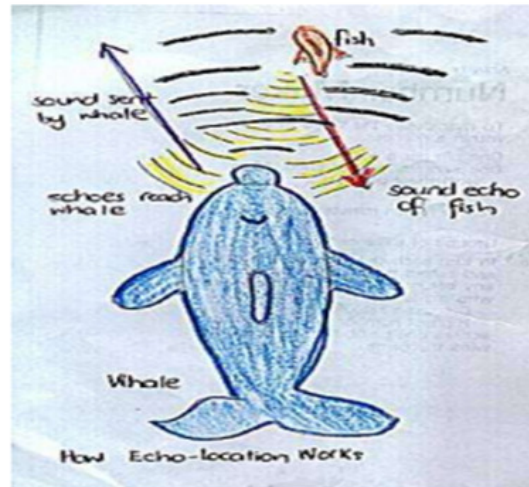


Sound produced in humans

In human beings, the vibration of the vocal cords produces sound.

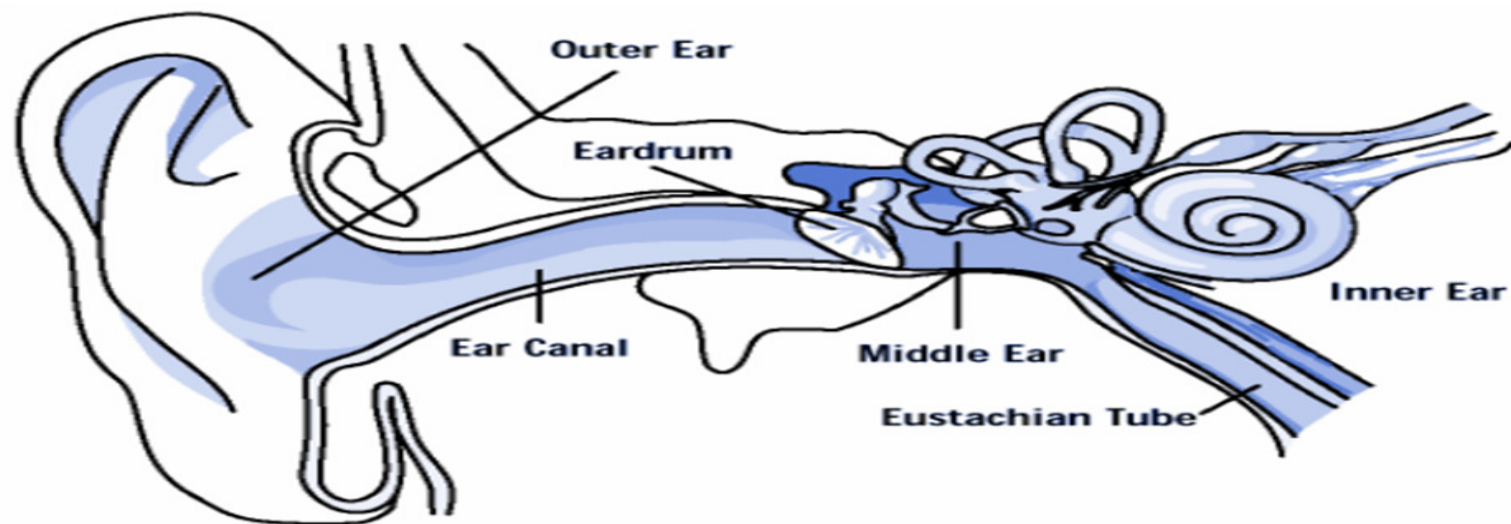


Sound travels through a medium
It cannot travel in vacuum.



How we hear sound through our ears

The eardrum senses the vibrations of sound, It sends the signals to the brain. This process is called hearing.



Amplitude Frequency and Time period

- **Amplitude:** The maximum displacement of an oscillating body from its mean position is called amplitude.
- **Frequency:** The number of oscillations or vibrations per second is called the frequency of oscillation. The frequency is expressed in hertz (Hz)
- **Time period:** The time taken to complete one oscillation is called time period

Larger the amplitude of vibration, louder is the sound.

Higher the frequency of vibration, the higher is the pitch, and shriller is the sound.

Unpleasant sounds are called noise.

Excessive or unwanted sounds lead to noise pollution. Noise pollution may cause health problems for human beings.

Plantation on the roadside can reduce noise pollution.

