# HEARING AND SOUND PHENOMENA

***INSTRUCTIONS:*** *Complete with the information obtained from the videos*

The ear is the organ of hearing. The ear and the canal make up the outer ear, but the ear also has two other parts, which are the middle ear and the inner ear.

The ear picks up sound waves and conducts them into the auditory canal.

Sounds are produced by mechanical vibrations. Sound waves are produced by periodic variations in air pressure, and spread through it.

The eardrum, in the middle ear, transmits the vibrations to the chain of ossicles, the smallest bones in the human body.

The inner ear transforms the vibrations into nerve impulses that are transmitted to the brain, where the sensation of "sound" is produced.

Thus, we call "Sound" the sensation that occurs when the sound waves produced by a body that frees, reach our ears. The natural ones are present in nature, and the articles are produced by the human being.

When the sound has a regular and periodic waveform, what we call "Tone" is produced. There are no pure tones in nature, being accompanied by harmonics.

When the sound vibration is irregular or aperiodic, “Noise” appears. From a psychological and physical point of view, noise is an annoying sound.

The musical creation is based on the combined use of Sound, Noise and Silence with an artistic purpose.

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