

a direction perpendicular to the area.

$$\text{Intensity} = \frac{\text{energy}}{\text{area} \times \text{time}} = \frac{\text{power}}{\text{area}} \left(\because \text{power} = \frac{\text{energy}}{\text{area}} \right)$$

The unit of intensity is watt/metre² (W/m²).

Difference between loudness and intensity

Loudness	Intensity
1. It is not an entirely physical quantity	1. It is a physical quantity which can be accurately measured.
2. It depends upon (i) sensitivity of the ear and (ii) intensity of the sound	2. It does not depend upon sensitivity of the ear.

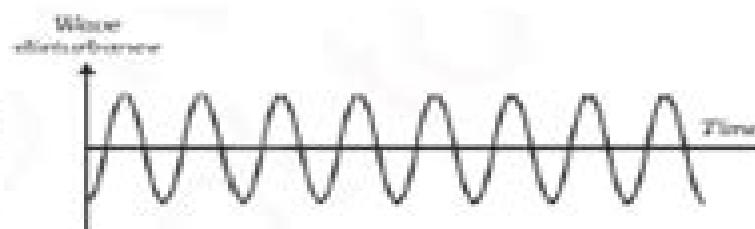
Pitch or Frequency

Pitch is that characteristic of sound which helps in differentiating between a shrill sound from a grave (flat or dull) sound.

High and low pitched sounds are called treble and bass respectively.



Wave shape for a low pitched sound



Wave shape for a high pitched sound

Quality or Timbre

The characteristic of a sound which distinguishes it from another of the same pitch and loudness is called quality or timbre.

A sound of single frequency is called a tone.



Tuning fork

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Unveiling the Magic of Words: A Report on "**Sound Notes For Class 9**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Sound Notes For Class 9**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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