

## 18. Sound Production of Sound

- Vibrating body produces sound.
  - Vibration motion– to-and-fro or back-and-forth or up-and-down motion of a body.
  - Sound is a form of energy that is produced by producing vibration in an object.
  - Sound cannot move through vacuum; sound waves are longitudinal waves.
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- **Frequency** – Number of oscillations per second. It is measured in hertz(Hz).
  - **Loudness of sound**
    - It is measured in decibel (dB).
    - It depends on amplitude.
    - Higher **amplitude** – louder sound
    - Pitch or shrillness depends on frequency.
    - Higher **frequency** – higher pitch
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- **Audible sound** – Human ear can hear sounds having frequency in the range of 20-20,000 Hz.

