



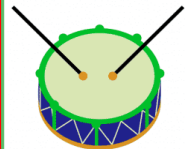
Working together to be the best that we can be

Golden Thread: Sustainability

Sound happens when something **vibrates**

Sound is a form of energy which moves in the form of vibrations.

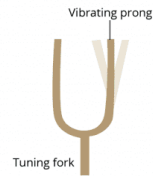
Necessary condition for sound production = vibration of a particle
Vibration is to and fro movement of a particle from its initial position



When we hit the drum, membrane of the drum vibrates producing sound



When we play the guitar, the strings move to and fro producing sound.

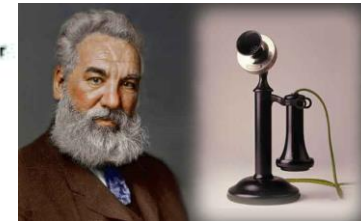
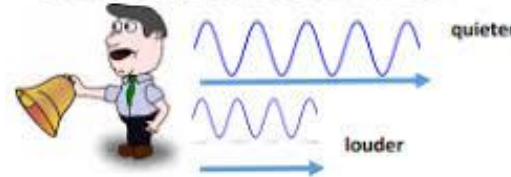


Sound produced by the vibrating prong of a tuning fork.



Volume:

- The closer you are to the **source** of the sound, the **louder** the sound will be.
- The further away you are from the **source** of the sound, the **quieter** the sound will be.



The Scottish inventor first patented the telephone in 1876.



Pitch

The Pitch is how high or Low a Note is.

- The shorter the vibrating object the higher pitch.
- The larger the vibrating object the lower the pitch.
- The tighter the string the higher the pitch.
- The less air vibrating the higher the note.



Glossary

Amplify- To make something greater like increasing the volume.

Decibel- The measurement of the amount of energy in a sound.

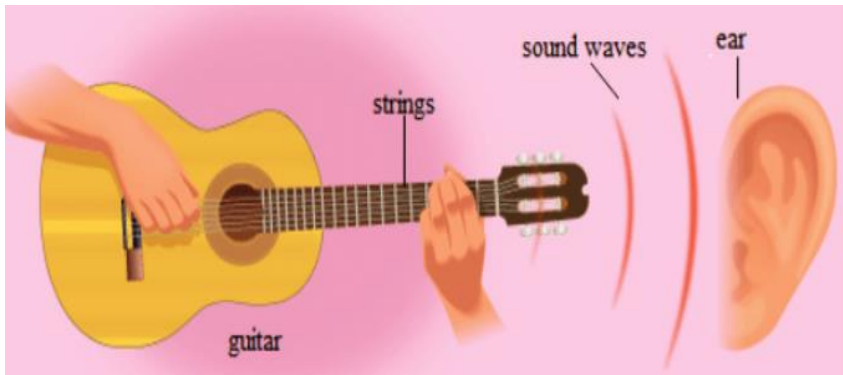
Echo- The sound that bounces of a hard smooth surface.

Pitch- The high or low of a sound.

Soundproof- Materials that stop the sounds vibrating and travelling.

Vibration- Something moving very fast, these make sounds.

Volume- How loud or quiet a sound is



We hear sounds when **vibrating air** hits our **ear drums**. The **object vibrates**, the **air vibrates**, hits our **ear drums**. The vibration is picked up by our **brains**.