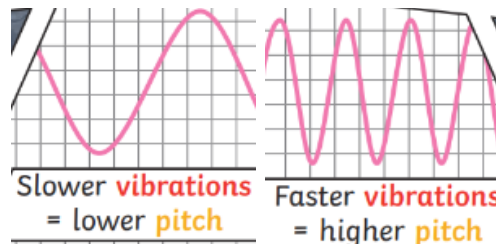


The size of the vibration determines the volume, larger vibrations are louder, smaller vibrations are quieter.

The speed of the vibration determines the pitch, slower vibrations are lower, faster vibrations are higher.



## Key Vocabulary

vibration

A quick movement, back and forth. sound is created by vibrations. The larger the vibration the louder the sound.

volume

The measure of how loud or quiet a sound is. Over distance volume decreases.

pitch

The measure of how high or low a sound is. A whistle makes a high pitched sound. A rumble of thunder makes a low pitched sound.

source

The origin of a sound. Vibrations travel from the source to your ear.



### Key Scientist

Robert Boyle 1627-1691 demonstrated that air is a medium through which sounds travel.

He put a bell in a jar, then took out all the air from the jar to create a vacuum, after which the bell fell silent.



# Sound: What are the key properties of sound? (Year 4)

