
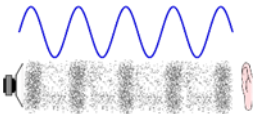




What should I already know?

- Hearing is one of my five senses.
- Sounds can be combined using musical instruments.
- What the word **vibration** means.

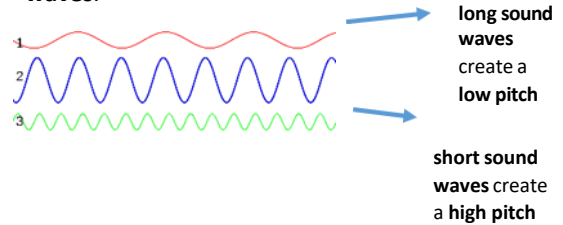
What will I know by the end of the unit?

What is a sound?	A thing that can be heard. The object that makes the sound is called the source .
How is a sound made?	When objects vibrate , a sound is made. 
How does sound travel?	Sound waves travel through a medium (such as air, water, glass, stone, and brick).
How do we hear sounds?	<ul style="list-style-type: none"> • When an object vibrates, the air around it vibrates too. This vibrating air can also be known as sound waves. • The sound waves travel to the ear and make the eardrums vibrate. • Messages are sent to the brain which recognises the vibrations as sounds. 
How do sounds change?	<p>Pitch: The pitch of a sound is how high or low it is. A squeak of mouse has a high pitch. A roar of a lion has a low pitch.</p> <p>Volume: The volume of a sound is how loud or quiet it is. A vibration with lots of energy makes a powerful sound wave and therefore a loud sound. A powerful, smashing tap of a hammer is used with lots of energy and so creates a loud noise.</p>
How do we measure sound?	<ul style="list-style-type: none"> • Amplitude measures how strong a sound wave is. • Decibels measure how loud a sound is.

Diagrams

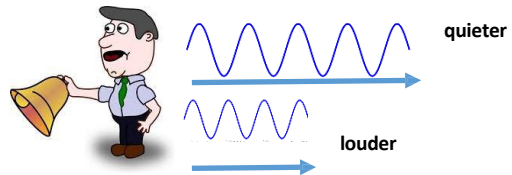
Pitch:

- **High pitch** sounds are created by short **sound waves**.
- **Low pitched** sounds are created by long **sound waves**.



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.



Vocabulary

amplitude	a measure of the strength of a sound wave
decibel	a measure of how loud a sound is
energy	the power from sources such as electricity that makes machines work or provides heat
frequency	how often something happens
medium	any material that sound or light travels through
pitch	how high or low a sound is
sound waves	invisible waves that travel through air, water, and solid objects as vibrations
source	where something comes from
transmit	to pass from one place or person to another
travel	how something moves around
vibrations	invisible waves that move quickly
volume	how loud or quiet a sound is

Investigate!

- Fill identical jars with different volumes of water. Which one creates the highest pitch?
- Which material would make the best sound defender? How can you investigate this?
- Make musical instruments using different length strings. How do their pitches differ?