

What should I already know?

- Our ears detect sound
- Hearing is one of my 5 senses
- Energy comes in different forms and can be neither created nor destroyed, only changed from one form to another

What will I know by the end of this unit?

What is sound?

- A thing that we can hear.
- Sounds come from a source.

How is a sound made?

- When objects vibrate.
- These vibrations then cause the air to vibrate which enters your ear (sound waves).

How do sounds travel?

- Sound waves travel through a medium.

How do we hear sounds?

- These vibrations then cause the air to vibrate which enters your ear (sound waves).
- These make the eardrums vibrate.
- Messages are sent to the brain which recognises the vibrations as sound.

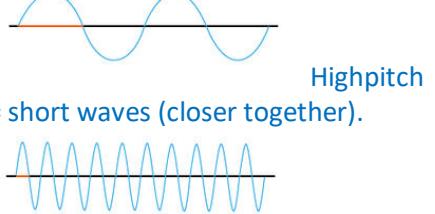
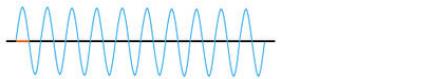
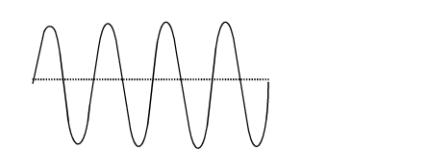
How do sounds change?

- Pitch
- Volume

How do we measure sound?

- Amplitude
- Decibels
- Frequency.

Key Vocabulary

Amplitude	a measure of the strength of a sound wave.
Decibel	A measure of how loud a sound is.
Energy	The power from a source such as electricity that makes machines work.
Frequency	A measure of how many times per second the sound wave cycles.
Medium	Something that makes the transfer of energy from one location to another possible.
Pitch	How high or low a sound is. Low pitch = long waves (more spaced out).  = short waves (closer together). 
Sound Waves	Invisible waves that travel through air, water or a solid object as vibrations.
Source	Where energy comes from
Transmit	To pass from one place to another.
Travel	How something moves around.
Vibrations	Invisible waves that move quickly.
Volume	How loud or quiet a sound is. Quiet = short waves (in height)  Loud = Taller waves. 

Let's investigate! What can you find out?

- Fill 2 identical jars with different amounts of water. Which one creates the highest pitch?
- Which materials would make the best sound defenders?
- Make a musical instrument using different lengths of string. Investigate how the pitch is different.

