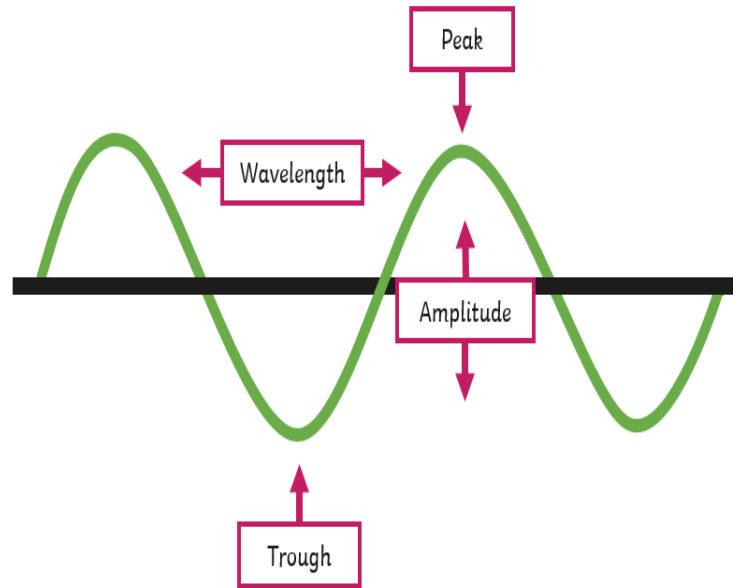


# Year 4: Can sound be seen?

## What is sound?

- Sounds are made when objects vibrate.
- The vibration makes the air molecules around the object vibrate, and the air vibrations enter your ear through waves.
- Sound waves vibrate differently for different objects.
- Our brain hears the vibrations and turns this into a sound.

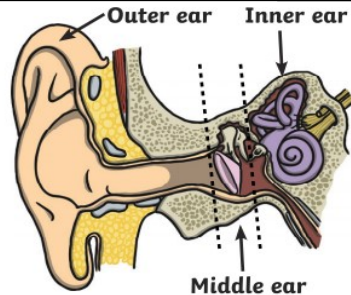
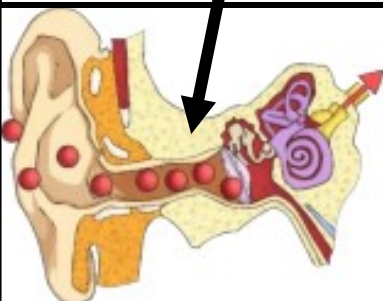


## Vocabulary

amplitude	The height of the wave, measured from the peak to the trough.
faint	A very quiet sound, such as a whisper.
insulation	A material that can block out the vibrations of sound.
loud	A very intense sound, such as a firework bang.
pitch	How high or low a sound is.
sound	An energy made by vibrations.
source	The source of sound is where the sound is coming from.
travel	To move in a direction.
vibrate/ vibration	Shaking quickly back and forth.
volume	How loud or quiet a sound is.

You can see the air molecules travelling through the ear.

When they go through the ear canal, they tickle tiny hairs which send signals to your brain about the pitch and volume of the sound.



The strength of the vibrations will tell the brain how loud the sound is.

For example, someone shouting will have more vibrations than someone whispering.

## Volume and Pitch

The louder the sound, the bigger the vibration.  
The closer you are to the source of a sound, the louder the sound will be.  
The further away you are from the source of a sound, the quieter the sound will be.

Loud sound

Quiet sound



CRC: Article 17 - All children have the right to find out information.