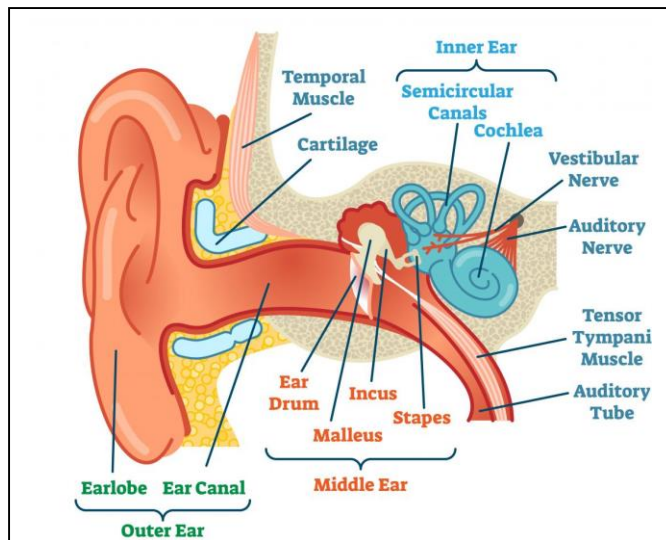


Science – Sound

YEAR 4

Autumn 1



How does sound travel?	Sounds can travel in two ways: <ul style="list-style-type: none"> • Through the air • Through an object/material
How do we hear these vibrations?	<ul style="list-style-type: none"> • The vibrating air hits our ear drums and makes them vibrate. • The vibration is picked up by our brains.

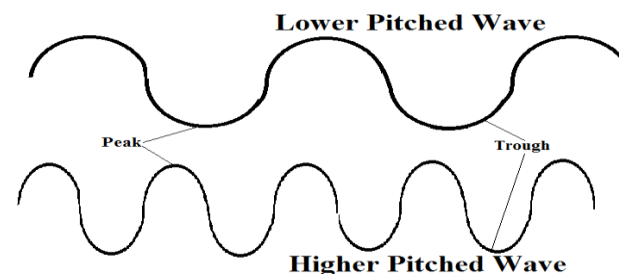
Vocabulary	Definition
Vibrates	Move continuously very quickly
Obvious	Clear and easily seen or understood
Material	What something is made from
Recognise	To see or spot something
Initial	Happening at the beginning

What is sound?

What is sound?	A noise that can be heard by someone or something
How is sound made?	<p>A sound happens when something vibrates.</p> <p>Place your fingers gently on your throat when you talk – you can feel the vibrations of your voice box.</p> <p>It can be loud like when a drill is hitting the ground repeatedly, which causes a loud noise.</p>

Changes in sounds

Volume	<p>The closer we are to the sound source, the louder the sound will appear to us.</p> <p>The further away we are from the sound source, the quieter the sound will appear.</p> <p>The more energy in the initial vibration the louder the sound will be.</p>
Pitch	<p>The pitch is how high or low a sound is.</p> <ul style="list-style-type: none"> • The shorter the vibrating object, the higher the pitch of the sound. • The longer the vibrating object, the lower the pitch of the sound. <p>With string instruments, the tighter the string, the higher the pitch of the sound.</p>



The wave is travelling from left to right

Sound travels in waves like this, higher pitched sounds make waves which are closer together than lower pitched noises.