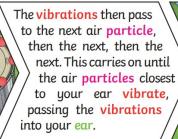
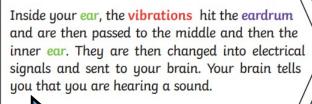
## Sound-Battle Stations How do I hear a warrior going into battle?

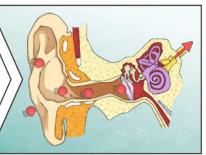
## 1. How do we hear?

Sound can travel through solids, liquids and gases. Sound travels as a wave, vibrating the particles in the medium it is travelling in. Sound cannot travel through a vacuum.

When you hit the drum, the drum skin vibrates. This makes the air particles closest to the drum start to vibrate as well.







3. What is the relationship between the pitch of a sound and the object that

You can change the pitch of a sound in different ways depending on the type of instrument the you are playing.

The For example, if you are playing a sylophone, striking the smaller bars with the beater causes faster vibrations and so a higher pitched note. Striking the larger bars causes slower vibrations and produces a lower note.



## 2. How can we stop sound travelling?

Sound is blocked by adding heavy, dense layers between the source of the sound and the **receiver**. Sounds can not travel through a **vacuum (no matter)**.

Volume	The loudness of a sound.
Vibration	A movement of energy backwards and forwards.
Soundwave	Vibrations travelling from a sound source.
Ear	An organ used for hearing.
Eardrum	Part of the ear which is a thin, tough layer of tissue that is stretched out like a drum skin. It separates the outer ear from the middle and inner ear. Soundwaves make the eardrum vibrate.
Amplitude	The size of a vibration. The larger amplitude = a louder sound.
Pitch	How high or low a sound is.

4. What is the relationship between the volume of a sound and the strength of the vibration?

loud

quiet

The size of the vibration is called the amplitude.

Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude.



