



Key Vocabulary	_	Key Knowledge
vibration	A movement backwards and forwards.	Sound is a type of energy. Sounds are created by vibrations. The louder the sound, the bigger the vibration.
sound wave	Vibrations travelling from a sound source.	
volume	The loudness of a sound.	FRANK PT STANDER PT STANDER
amplitude	The size of a <mark>vibration.</mark> A larger amplitude = a louder sound.	
pitch	How low or high a sound is.	
The size of the vibration is called the a m p l i t u d e. Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude. quiet		Pitch is a measure of how high or low a sound is. A whistle being blown creates a high-pitched sound. A rumble of thunder is an example of a low-pitched sound.
You can change <b>pitch</b> of a sou in different way depending on the type of instrument you are playing.	ind // xylophone, striking the ys // with the beater causes for e // and so a higher <mark>pitched</mark>	aster vibrations note. Striking

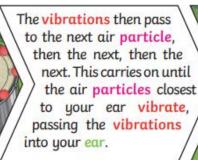


Key Vocabulary		
ear	An organ used for hearing.	
particles	Solids, liquids and gases are made of <b>particles</b> . They are so small we are unable to see them.	
distance	A measurement of length between two points.	
soundproof	To prevent sound from passing.	
absorb sound	To take in sound energy. Absorbent materials have the effect of muffling sound.	
vacuum	A space where there is nothing. There are no particles in a vacuum.	
eardrum	A part of the <b>ear</b> which is a thin, tough layer of tissue that is stretched out like a drum skin. It separates the outer <b>ear</b> from the middle and inner <b>ear</b> . Sound waves make the <b>eardrum vibrate</b> .	

## Key Knowledge

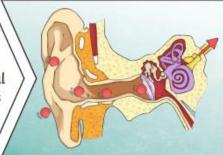
Sound can travel through solids, liquids and gases. Sound travels as a wave, vibrating the particles in the medium it is travelling in. Sound cannot travel through a vacuum.

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

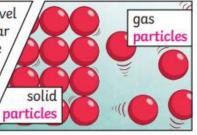




Inside your ear, the vibrations hit the eardrum and are then passed to the middle and then the inner ear. They are then changed into electrical signals and sent to your brain. Your brain tells you that you are hearing a sound.



Sound energy can travel from particle to particle far easier in a solid because the vibrating particles are closer together than in other states of matter.



If you throw a stone in a pond, it will produce ripples. As the ripples spread out across the pond, they become smaller. When sound vibrations spread out over a distance, the sound becomes quieter, just like ripples in a pond.

