Key vocabulary		
sound	Something you can hear or that can	
	be heard. We hear sound with our	
	ears.	
sound	A source is producing sound when	
source	some part of it is vibrating.	
vibrations	Sounds are made when something	
	vibrates. This means it moves	
	quickly backwards and forwards.	
pitch	How high or low a sound is.	
volume	How loud or quiet a sound is.	
sound	A material which blocks sound	
insulation	effectively.	

Sticky Knowledge: how do we hear sound?



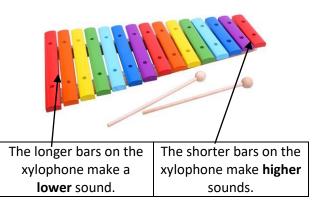
Sound Year 4

Significant scientist		
Yaqub ibn Isha al-	Yaqub ibn Isha al-Kindi was	
Kindi	an Arab philosopher and	
(801c – 873c AD)	physicist. He is celebrated for being the first person to discover sound waves. His work explained how sound travels through various surfaces and into the ears.	

As well as travelling through air (gas), sound can travel through solids and liquids:



Pitch





Volume

The volume (loudness) of a sound depends on the size of the vibrations.



The closer we are to the sound source the louder it will be.



A train arriving at a station sounds loud.

The further away from a sound the fainter it will be.



A train in the distance sounds quieter.

Insulating sound



We can wear ear defenders to protect our ears from very loud sounds.