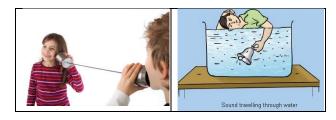
Key vocabulary		
sound	Something you can hear or that can	
	be heard. We hear sound with our	
	ears.	
sound	A source is producing sound when	
source	some part of it is vibrating.	
vibrations	Sounds are made when something	
	vibrates. This means it moves	
	quickly backwards and forwards.	
pitch	How high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

## How do we hear sound?

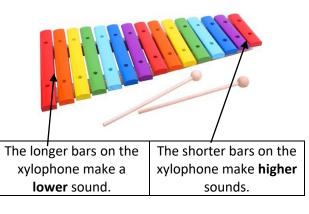


Significant scientist			
Christian Doppler	Christian Doppler was an		
(1803-1853)	Austrian mathematician and		
- March Calls	physicist. He is celebrated		
0	for his principle known as		
1 I	the Doppler effect. This		
AR	describes how noises sound		
	different as you move		
	toward or away from a noisy		
and the second s	object.		

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.