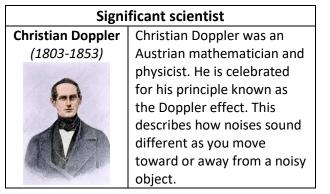
| Key vocabulary |                                    |
|----------------|------------------------------------|
| sound          | Something you can hear or that can |
|                | be heard. We hear sound with our   |
|                | ears.                              |
| sound          | A 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?

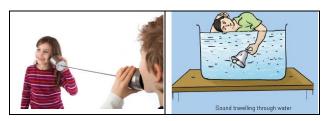


3. The vibrations cause parts of our body inside our ear to vibrate. This allows us to hear the sound.

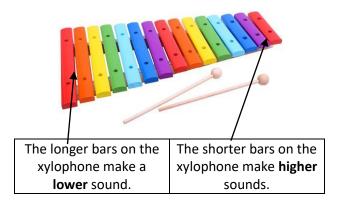
### Sound - Year 4



# 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.



If we blow an instrument harder, we make a louder sound.

### 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.