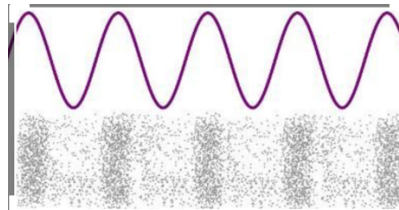


**What I should already know**

My ears are used for my sense of hearing and they help me to identify and name sounds around school.  
Which sound is louder or quieter than a different one.  
Sounds can be grouped in different ways.

**How sound reaches our ears**

Sounds **travel** as **sound waves** from a **source**. Vibrations set up **sound waves** which travel through the air and hit our ear drum. The vibrations are changed by our brain into the sounds we hear



**Vocabulary**

|                    |   |
|--------------------|---|
| <b>data logger</b> | a device used to measure the <b>volume</b> of a sound   |
| <b>decibel</b>     | a measure of how loud a sound is  |
| <b>pitch</b>       | how <b>high</b> or <b>low</b> a sound is  |
| <b>sound waves</b> | invisible waves that <b>travel</b> through air, water, and solid objects as <b>vibrations</b> |
| <b>source</b>      | where something comes from  |
| <b>travel</b>      | how something moves around  |
| <b>vibrations</b>  | invisible waves that move quickly   |
| <b>volume</b>      | how <b>loud</b> or <b>quiet</b> a sound is  |

**Key facts**

**Sound is a vibration**

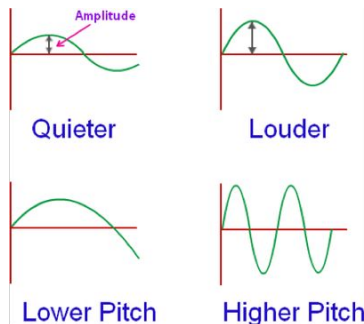
A **vibration** is caused by making something move.

**Volume** means loud or quiet

Volume can be changed

**Pitch** means high and low sounds

The pitch of some instruments can be changed



**An example of changing sound: a drum**

Hitting a drum skin will cause a vibration which travels through the air as waves to our ears.

To change the **volume** of a drum:

- Hit it harder to make a louder sound
- Hit it gently to make a quieter sound.

To change the **pitch** of a drum:

- Stretch the skin to make a higher pitch
- Relax the skin to make a lower pitch



Change the pitch using the tension rod.

To vibrate is a verb and can be changed according to the sentence you are writing: vibrating, vibrated, vibrates

It can also be changed to use as a noun: vibrations

Sounds become fainter as you move away from the **source**

