

Steps through Learning Science : Changing Sound

Vocabulary that I will learn and use during this unit of work

Vibration volume pitch

Muffle amplitude

Decibel energy frequency

Medium sound waves

Transmit

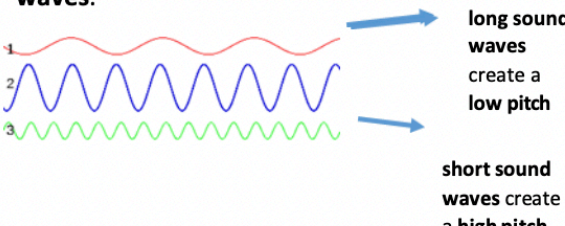
Sticky knowledge about

- Sound is made through vibrations
- Sound travels in waves
- Sound can travel through solids, liquids, and gases
- Some materials allow sound to travel through them easier than others
- Pitch describes how high or low a sound is
- Volume means how loud or quiet a sound is

Diagrams

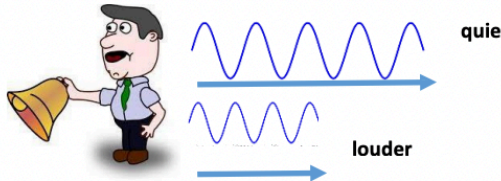
Pitch:

- **High pitch** sounds are created by short **sound waves**.
- **Low pitched** sounds are created by long **sound waves**.



Volume:

- The closer you are to the **source** of the sound, the **louder** the sound will be.
- The further away you are from the **source** of the sound, the **quieter** the sound will be.



How are sounds made and how do they travel?

When objects **vibrate**, a sound is made.

The vibration makes the air around the object vibrate and the air vibrations enter your ear. These are called **sound waves**.

If an object is making a sound, a part of it is vibrating, even if you cannot see the vibrations



Sound waves travel through a medium (such as air, water, glass, stone, and brick).

How do we hear?

The sound waves travel to the ear and make the ear-drums vibrate. Messages are sent to the brain which recognises the vibrations as sounds.

