



Year

Term



travels in waves as vibrations

sound waves can ONLY travel through a <mark>medium</mark>

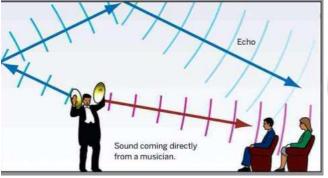
A medium such as

- air (gas)
- water (liquid)
- wood (solid)

sound travels through anything with

particles





properties of sound

sound

is transfer of energy

vibrations create sound

regular and repeated movement of an object that moves backwards and forwards

sound can't travel in a vacuum (no particles)

sound travels in air

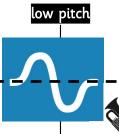
34<u>0 m</u>etres each s<u>econd</u>



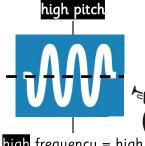
number of sound waves each second

sounds high or low

how frequent waves are



low frequency = low number of waves each second (tuba)



high frequency = high number of waves each second (trumpet)

3 things that affect pitch

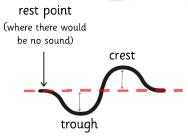
(frequency) of the sound wave

- size
- length
- tightness

of the thing that is vibrating

loudness

size of the sound waves

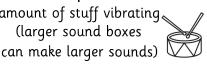


bigger the waves more energy

louder it sounds

2 things that affect loudness amount of energy

> amount of stuff vibrating, (larger sound boxes



hearing

sounds travel through a medium (air, water, wood) and enter your ear canal

> sounds vibrate the ear drum, middle ear and inner ear

vibrations send messages to your brain

sound fades

vibrations get fainter as the distance from the source increases

> the same amount of energy is spread over a larger area



