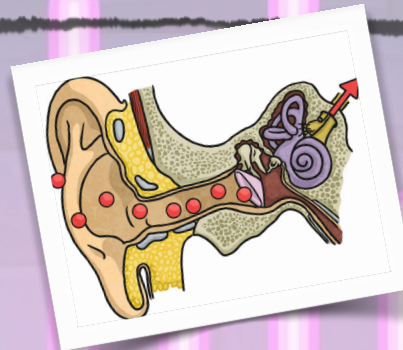
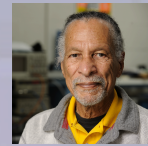


How do we hear music?

Sound Y4

Key scientist – Dr James E. West

He invented a type of microphone upon which 90% of all microphones used today are based.



Key learning

- Identify how sounds are made, associating some of them with something vibrating
- Find patterns between the volume of sound and the strength of the vibrations that produced it
- Recognise that vibrations from sounds travel through a medium to the ear
- Recognise that sounds get fainter as the distance from the sound source increases
- Find patterns between the pitch of a sound and features of the object that produced it

Working scientifically focus

- Recording data
- Setting up tests
- Making predictions

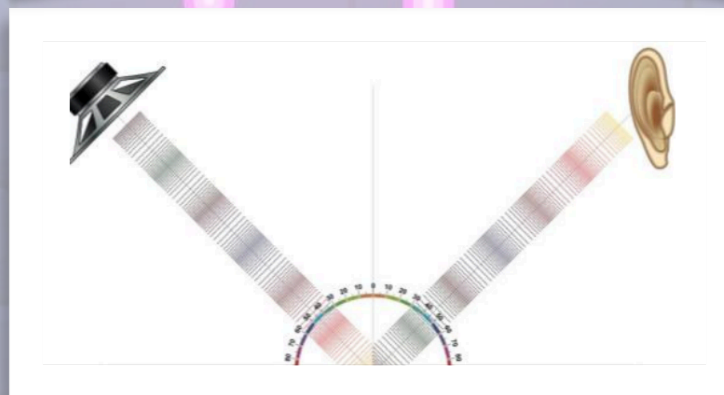
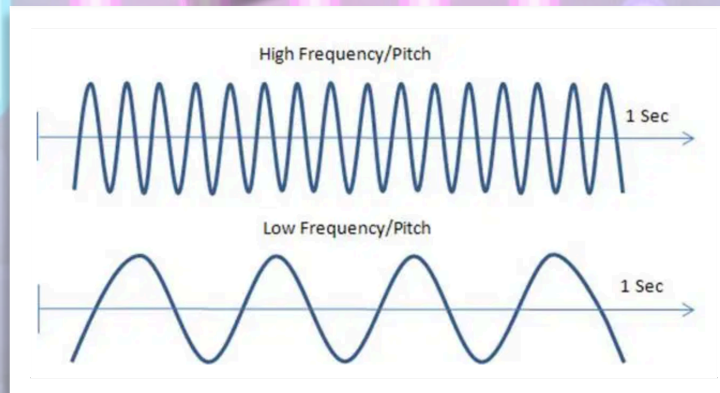
Scientific enquiry types



Identifying and classifying



Comparative and fair testing



Key vocabulary

Decibels	the unit to measure the loudness of sound
eardrum	The part of the ear that hears sounds.
echo	A repeating sound
energy	The power to make something work, move or grow.
particles	Tiny pieces that make up something bigger.
pitch	How high or low a sound is.
source	The start of something.
volume	How loud or quiet a sound is.
vibration	Particles moving very quickly.
waves	The form energy takes when travelling.



Ethics

Is the world accessible enough for those who struggle to hear? What supports are there? What could we change or add to help these people?