Year 4– Sound (Physics)

Factual Knowledge



- I know a vibration is a quick back-and-forth movement.
- I know sounds are made when objects vibrate.
- I know the vibrations travel from the object to our ears. Sounds can be heard when these vibrations reach our ears.
- I know sound vibrations travel through the air.
- I know sound volume is measured in decibels (dB).
- I know a decibel is a measure of the loudness of sounds.
- I know a decibel meter can be used to measure the loudness of sounds.
- I know if humans are exposed to loud sounds too often, their hearing can be damaged.
- I know the louder the sound, the bigger the vibration.
- I know the quieter the sound, the smaller the vibration.
- I know pitch means how high or low a sound is.
- I know high-pitched sounds produce faster or more frequent vibrations.
- I know low-pitched sounds produce slower or less frequent vibrations.
- I know there are different ways to change the pitch of an instrument.

Important vocabulary I will know

vibration		a quick back-and-forth movement
sound		vibrations that travel through the air, or another medium, and are heard when they reach an ear
volume		how loud or quiet a sound is
pitch		how high or low a sound is
decibel (dB)		a measure of the loudness of a sound
decibel meter		a piece of equipment used to measure the loudness of sound
insulate		to protect something from the transfer of heat, sound or electricity
high-pitched		describes a high sound
low-pitched		describes a low sound

Scientific Enquiry– Fair test

Enquiry question: How does the distance from the sound source affect the volume of the sound?

Working Scientifically

- Gather, record and classify data
- Ask questions
- Make observations
- Plan
- Answer questions and make conclusions

