

Science- Year 4

Autumn 2- Good vibrations

In Science, I have learnt:

To can carry out a fair test:

- I can predict what I think will happen and say why using my prior knowledge.
- I can explain what we are changing, measuring and keeping the same in the experiment.
- My conclusion contains detailed observations and explains my results.

louder, softer, loud, quiet, high, low, senses, hearing, classify, similar, different, predict, conclude, fair test, observe, pattern, data.

I can identify how sounds are made, associating some of them with something vibrating.

I can recognise that vibrations from sounds travel through a medium to the ear.

I can recognise that sounds get fainter as the distance from the sound source increases.

Working Scientifically

I can investigate which material sound travels best through and can create my own scale of loudness for comparison. I can record my results in a table that I designed myself.

I can use a data logger to test loudness and can use the results and graphs from the data logger to draw conclusions. My conclusion states why some sounds are louder than others with reference to my prior learning.

I can design my own experiment to test what will happen to the loudness of a sound when a data logger is moved further from it.

I can predict what will happen to the loudness of a sound as the data logger moves further from it, showing my understanding of sound waves.

I can describe what I notice when the width, tautness and length of a band is changed in an instrument.

Scientific enquiry type:

Grouping and classifying

Carrying out a fair test

New Science words:

blow, shake, pluck, **vibration, vibrate**, solid, gas, volume, loudness, **strength of vibrations**, sound source, **fainter**, distance, **pitch**, particles, question, investigation, fair test, change, measure, predict, prediction, explanation, observations, draw conclusions, data logger.

