



2017 will start with a “bang” for Year 4.



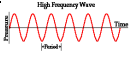
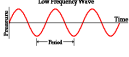





**Our Science this term will focus on
Sound.**

Year 4 Objectives

- Recognise that there is an association between sound and vibrations – that sound is made when an object vibrates.
- Recognise that vibrations travel through air (or if we're under water, through water) to the ear and that we hear these as sound.
- Recognise that pitch and volume describe different characteristics of a sound, and that these are related to the characteristics of the vibrations: the volume of a sound varies with the size of the vibrations (amplitude), the pitch with the number of vibrations per second (frequency).
- Recognise that these characteristics depend upon the properties of the object making the sound, such as the material it is made from.
- Recognise that sounds get fainter as the distance from the sound source increases.

Topic Outline

<p>Session 1</p>  <p>Sound Walk</p> <p>Go on a ‘sound walk’ through the school and begin to think about how sound is made.</p>
<p>Session 2</p>  <p>Good Vibrations</p> <p>Explore sound further and investigate vibrations and how sound travels.</p>
<p>Session 3</p>   <p>Pitch and Volume</p> <p>Investigate pitch and volume by exploring instruments and the different sounds they make.</p>
<p>Session 4</p>  <p>Pardon?</p> <p>Understand how we hear sounds and begin to consider ways to reduce what we can hear.</p>
<p>Session 5</p>  <p>Sssshhhhhh!</p> <p>Plan and conduct an investigation into which material best reduces the sounds we hear.</p>
<p>Session 6</p>  <p>The Rock Star Challenge</p> <p>Present your ear defenders design, and explain your findings.</p>

Have a look at these great websites:

Institute of Physics website has some material about Sound:

<http://www.iop.org/activity/outreach/resources/pips/topics/sound/index.html>

The Children's University of Manchester has information about how the ear works:

<http://www.childrensuniversity.manchester.ac.uk/interactives/science/brainandsenses/ear>

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