

## Y4 Newsletter - Summer 1



Dear Parents/Carers

### Welcome back Y4!

This half term our project '*Wired for Sound*' is science based - with a focus on sound and electricity. By the end of the half term we will become keen physicists with an enhanced understanding of the science of sound and electricity.

During our science lessons we will learn about how sound travels through waves and how different mediums can create sounds of different pitch and volume. We have already experienced our 'Science of Sound' workshop which took place on Thursday 18 April - this was a fantastic way to kick start our science learning.

As part of our learning on Sound we will also be making our own instruments using recycled materials - this will take place during week 3. Please bring in cardboard boxes, containers and other recycled objects that could be used for instrument making during week 3. If you would like to help us with this project, please let one of the teachers know.

We will then move on to learn about the science of electricity. We will make and test our own circuits and learn more about how the world around us is powered by electricity. As historians we will explore the events that led up to the invention of the lightbulb and how this invention has changed the world around us.

On Thursday 23 May at 3pm we will put on an interactive science show in the hall. Parents and carers are very welcome to come and try out some of the investigations the children will set up and enjoy looking at the work we have produced over the half term.

If you have any other questions or concerns, please see Miss Wood or Mr Cain. For short enquiries, class teachers can be found in the playground at both the start and end of the day. Longer meetings can be organised in advance, by making an after school appointment. We are looking forward to working with you and your children.

Kind regards

Miss Wood (Y4HW) and Mr Cain (Y4TC), with teaching assistants Miss Gianneka (Y4HW) and Mrs Clark (Y4TC).

Nurturing a caring community, in which every child learns well.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Literacy	Write an explanation text about how sound travels	Write an explanation text about how sound travels	Write instructions, including the use of organisational devices	Write instructions, including the use of organisational devices	Collect information from a variety of sources and present it in one simple format	Collect information from a variety of sources and present it in one simple format
Numeracy	Solve problems involving fractions of amounts.  Recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$	Compare numbers with the same number of decimal places up to two decimal places.	Round decimals with one decimal place to the nearest whole number.  Estimate, compare and calculate different measures	Solve simple measure and money problems involving fractions and decimals to two decimal places.	Convert between different units of measure [for example, kilometre to metre; hour to minute]	Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting units of measure.
Project Work – what knowledge will we gain?	<u>Science</u> How does sound travel? Recognising that vibrations from sounds travel through a medium to the ear  <u>Philosophy session</u> How have scientific inventions changed the world around us?	<u>Science</u> Can we find patterns between the pitch and volume of a sound and features of the object that produced it?  <u>Computing</u> Explore what makes an excellent multimedia story	<u>Science and Computing</u> Creating our own science investigations involving sound.  Can we use a data logger to record decibels and then can we present data from an investigation clearly?  <u>Music and D+T</u> Design and make our own musical instruments.	<u>Science</u> Identify common appliances that run on electricity  Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers <u>History</u> The invention of the modern lightbulb.	<u>Science</u> Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery  Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit	<u>Science</u> Presentation of investigations and work for the science show  <u>Computing</u> Presentation of multimedia stories- linked to science project.
Project Vocabulary	Ear canal, ear drum, stirrup, anvil, hammer, cochlea, auditory nerve Vibration Air Medium Sound wave Pitch Volume		Decibel Data logger Investigate Experiment Hypothesis	Circuit Wire Component Switch Bulb Battery/ cell Insulator Conductor Electricity		
Key Dates	Thursday 18 <sup>th</sup> April Science of Sound Workshop		Musical instrument making- bring in materials from home.			Thursday 23 <sup>rd</sup> May Science Show at 3pm

Nurturing a caring community, in which every child learns well.

**Nurturing a caring community, in which every child learns well.**

**Driver 1: Citizenship**

Enable children to make their own decisions and take responsibility for their own lives and communities.

Develop children's understanding of and responsibilities within their communities from the local (Sheffield) to the national (British) and finally global (World)

**Driver 2: Aspiration**

Provide children with the necessary skills, knowledge and understanding to succeed irrespective of socio-economic background and/or gender.

