



The Science of Sound & Instrument Making

participatory demonstrations
& workshops for
Primary Classes

*Exceeds statutory requirements in Science
with extension opportunities in DT and Music*

The children couldn't wait to get their hands on the tools and make their instruments... Everyone went home with a huge smile and a whole host of new knowledge and skills.

*Helen Haigh - Y4 & Science & DT Subject Leader
Austhorpe Primary School, Leeds*

I thoroughly recommend Sam's excellent workshop which we have booked every year for the last 5 years. It covers all aspects of sound in a fun and entertaining way. Every child is involved in conducting experiments and asking and answering questions. A good time is had by all.

*Kate Saul - Y5 teacher
Wigton Moor Primary School, Leeds*

A fantastic way to approach the science of sound. Covers everything you need from the science curriculum in a very fun and interactive way. Highly recommended!

*Jacob Ellis-Jones - Y4 teacher
Catcliffe Primary School, Rotherham*

A fantastic enrichment opportunity for the children. All concepts were explained in a fun, clear and informative way. We will be booking for next year! I am planning my garden xylophone.

*Lisa Parkinson - Y4 Teacher
St Wilfrid's RC Primary, Manchester*

One of the best in-school training events I have ever been part of. The children (and teachers) absolutely loved it and were engaged fully in everything Sam taught them.

I was particularly impressed by the range of resources Sam brought in and it was great that he got ALL children involved. The way he questioned them, giving them time to think before answering, was a rare bonus.

*Jo Heap - Y4 teacher
Bradway Primary School, Sheffield*

*He explained it just the way we understand it!
Y5 pupil - Bramham Primary School*

The Science of Sound

KS1/F2: 1 hour, £75 per class*

KS2: 1½ hours, £95 per class (up to 32)

Guided by composer, junk instrument maker and ex-secondary school music teacher Sam Paechter, children participate in experiments using springs, fishing line, tuning forks, a ripple tank, some millet, plastic tubing, a wind up gramophone, straws, water, an oscilloscope, a very long stick, a bin bag and a host of unusual instruments.

*KS1/F2, minimum booking of 2 classes

They discover:

- How sound is made
- The difference between high, low, loud and quiet
- That sound travels through the air and many other media
- What kinds of materials conduct and amplify sound and which insulate and dampen it
- How sounds are produced, amplified and the pitch altered in a variety of brass, wind, string and percussion instruments.

The Science of Sound & Instrument Making

KS2: 2½ hours, £125 per class (up to 32)

In addition to everything covered in *The Science of Sound*, Sam demonstrates how to make a variety of working musical instruments from junk and readily available materials.

Instruments include xylophones, tubular bells, wind chimes, pan-pipes, rainsticks,

bat-phones, drums, oboes, flutes, dulcimers, bugles and trombones.

This session gives you all the information you need to gather materials and make your own musical instruments.

Alternatively, you can follow up with the *Instrument Making Workshop*.

The Science of Sound & Instrument Making with an Instrument Making Workshop

KS2: full day, £275 per class including tools and materials

This workshop comes in two parts: In the morning Sam delivers *The Science of Sound & Instrument Making*. Then, in the afternoon, he runs an *Instrument Making Workshop*, providing all the tools

and enough materials for each child to make at least one musical instrument from xylophones, pan-pipes, tubular bells, wind chimes, drums, rainsticks, oboes, flutes, dulcimers and trombones.

To book: Sam Paechter
sam@boffinprojects.co.uk
07939 077036

www.boffinprojects.co.uk

