



The Science of Sound & Instrument Making

participatory demonstrations
& workshops for
Primary Children
delivered in your classroom

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

Sam's sessions are brilliant and engaging. The children absolutely love finding out about sound in this fun way and learn so much on the day. They're always thrilled with the musical instruments they make, demonstrating their understanding of the science they have learnt!

Joe Purcell - Y4 teacher
St Paul's Catholic Primary School, Leeds

Sam set up an amazing array of objects and instruments for the children to feast their eyes on as they entered the room. St Thomas's Year 4 children highly recommend this workshop!

Claire Rafferty - Y4 teacher
St. Thomas's CE Primary, Bury

This workshop is one of the most immersive and fun ways to reinforce or introduce your learning about sound! The children always comment on how it's one of the highlights of their year!

Robyn Hayton - Y4 Teacher
Farsley Springbank Primary, Leeds

For fifteen years now, Sam has delivered his workshops to schools within our Trust - and there's a very good reason for that. The sessions link directly to national curriculum objectives for both Science and DT with subject-specific vocabulary reinforced throughout. Perhaps more importantly, however, is the unwavering enjoyment and engagement of children - the look on their faces is priceless as each new experiment is revealed!

Ceinwen Lodge - Headteacher
Worth Valley Primary School, Keighley

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

The Science of Sound

KS1/F2: 1 hour, £105 per class*

KS2: 1½ hours, £125 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 box, 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, £155 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, £310 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 a choice of 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

