



The
Science of Sound
&
Instrument
Making

cross curriculum/
creative curriculum
participatory demonstrations
for

Upper KS2

Meets skills objectives for:

Science Sc1 - 1ab 2abcde fghijkl Sc4 - 3efg

Breadth of Study 1abcd 2ab

DT 1abcd 2abcde 3abc 4ab

Breadth of Study abc

with extension opportunities in **Music**

The Science of Sound & Instrument Making

Meets the skills objectives for science and DT overleaf with extension opportunities in music (& QCA Changing Sounds and Musical Instruments, DT unit 5A)
2½ 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, plastic tubing, a wind up gramophone, straws, water, an oscilloscope, a very long stick and a host of unusual instruments to 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 altered in a variety of brass, wind, string and percussion instruments
- How to make a variety of working wind, brass, tuned percussion and string instruments from junk and easily obtainable materials

The Science of Sound

Meets the Science skills objectives overleaf (& QCA Changing Sounds, Science unit 5F)
1½ hours £95 per class (up to 32)

As above, but without showing how to make instruments.

A double whammy of excellent science and DT teaching! Sam's demos are innovative and inspirational. The children can't wait to try out his ideas and inventions and their learning is thoroughly enhanced and enriched.

Jo Ross - Y5 teacher
Burley in Wharfedale Primary

The children thought this was absolutely fantastic! An excellent delivery of both the science and DT curricula.

Rebecca Ingram - Headteacher
Oakwood Primary

That was fantastic! He explained it just the way we understand it.

Y5 pupil - Bramham Primary

To book: **Sam Paechter**
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