

Inspiring Young People in STEM: Resources and diversity

Examples of physical resources

Resource kits

Useful kits would be the Mystery Boxes from The Science Museum, The Crunch resource box from the Wellcome Trust, or a box of busking activities.

The Mystery Boxes are very adaptable, portable and appeal to a wide range of audiences from primary school pupils to adults.

- [Video explaining Science Museum Mystery Boxes](#) [YouTube]

You could make your own set, purchase a set from the Science Museum or borrow from a local Science Centre. The kit emphasises that:

- Scientist generate scientific theories based on evidence, but they do not find definitive answers.
- Scientific knowledge and ideas change over time and are open to further revision as our understanding of the world around us evolves.
- Science is a social and creative activity.

The Crunch resource box from the Wellcome Trust may take you rather more time to familiarize yourself with and may need more adapting than the Mystery Boxes. However all the information is provided and as every school in the UK has a set it shouldn't be difficult to acquire the resource in order to plan your activity.

- [The Crunch Resource Box](#) [Wellcome Trust]

Alternatively, there are thousands of busking activities available (see below for suggestions) and you could either create a box of your own favourite resources or perhaps borrow a box from your local Science Centre in the UK.

- [Science busking](#) [PDF]

Relevant publications

- Times Educational Supplement
- Focus magazine
- Nature

- ASE Education in Science
- Physics Education
- New Scientist

Books

There are several books available that provide excellent ideas for classroom demonstrations. Here is just a small selection:

- Mad about Physics. John Wiley: ISBN 0474569615.
- Turning the world inside out. Princetown paperbacks: ISBN 0691023956.
- The Flying Circus of Physics. John Wiley: ISBN 047102984.
- Mad about Modern Physics. John Wiley: ISBN 0474448559.
- Why Toast lands jelly side down. Princetown paperbacks: ISBN 0691028877.
- Riddles in your teacup. Institute of Physics: ISBN 0750302755.
- Invitations to Science Inquiry: Science Inquiry Enterprises: ISBN 187810621X.
- Science Magic - fun guaranteed. Sue Mc Grath: ISBN 9781425970611.
- Crisp packet fireworks. IMM Lifestyle Books: ISBN 9781845379810.
- The Resourceful Physics Teacher. Keith Gibbs: ISBN 0750305819.
- How many socks make a pair? Rob Eastaway: ISBN 9781781313244.