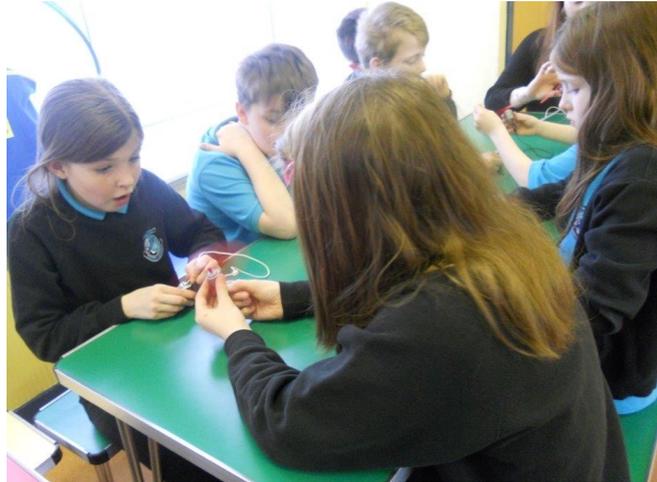


# Electricity



A sequence of engaging electrical investigations to discover more about circuits and their components. This is easily differentiated for different ages and experiences. Solar cells are used with the older children.

\* Age: Y3/Y4, Y5/Y6 \* Time: 75 minutes \* Space: hall

*"Highly organised, well-resourced and, with a wide range of activities, children were expected to discover rather than being spoon-fed."*

## Booking

Our workshop programme is extremely popular so the more lead-time (and choice of dates) you can offer us, the better.

Three workshop sessions will usually fit into a school day. Workshops are designed for a class of about 30 children with their class teacher. Our workshops are designed specifically to develop pupil skills. Notes are provided as support for the teacher to follow up the workshop. We hope that teachers will use the workshop ideas in their own teaching.

This workshop might need extra support - either adults or pupil helpers. Please discuss this with the Workshop Leader. Pupil helpers will have an opportunity to develop science communication skills so the pupils selected to help need to be alert, fairly competent and likely to benefit from taking part in the sessions.

## Costs

Workshop days cost £435 (+VAT) but some workshops which take place in areas where Workshop Leaders live might be available at reduced rates. Please note that there might be a small contribution towards accommodation/travel if the Workshop Leader is not local to your area. You might consider 'partnering up' with other schools in your local area to share the cost. Please enquire for more details.

## Curriculum link

Electricity: ... *construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers; 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; recognise some common conductors and insulators, and associate metals with being good conductors.*

Electricity: ... *compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches*