



Switched on! - KS2 Challenge Sheet

Electricity! Work with a range of switches and look at their uses in everyday life. How does an upstairs/downstairs light work? How can we control the current to make motors faster or slower, and bulbs brighter or dimmer?

Educational objective

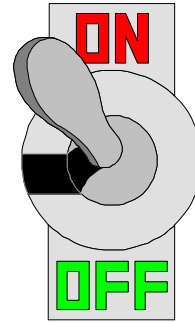
To provide experiences which will enhance the children's understanding of electricity.

Approach

Whole class introduction - electricity and how we use it. Practical group activities with the children working, in pairs, with a range of switches, relating these to everyday use. A challenge using fans - can you make the fan go faster, slower, turn clockwise and anti-clockwise?

Specific skills to be developed

Science-electricity, switches and control.



Cross-curricular links

Science - Design/Technology

Ideas for extension activities

Design/Technology projects which will require application for electricity, eg alarm systems, emergency vehicles, the fairground

Equipment we will provide:

battery packs
bulbs
crocodile clip wires
switches
photocopyable worksheets
motors

Subject skills / Desirable outcomes

Electricity (Science)
Experimental & investigative science

Life skills

Innovation skills
Problem-solving skills
Team working skills
Communication skills
Investigation skills