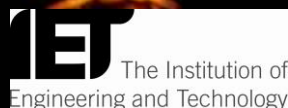




Lighting up the Curriculum for Excellence P6/P7

Project Partners:



Everyone loves flashing lights! We want to show primary teachers and pupils how easy and fun it is to construct simple electronic circuits for use in all sorts of exciting, ingenious projects – from twinkling Christmas cards and decorations, flashing badges and jewellery, flickering candles and scary Halloween masks, to cosmic posters, rainbows, and coloured dolls house lighting. The aim is to inspire creativity and encourage experimentation and modification. We supply starter kits for schools to capture your imagination. After that we hope to inspire you to modify the design and build your own circuits using readily available components.

Thanks to funding from the IET and Tomorrow's Engineers we have a number of free kits to distribute to primaries, backed with a half day electronics soldering workshop for teachers. You will be supplied with a starter kit, with 60 circuits and all the necessary tools.

Full contents of the kit:

- Soldering Iron
- Tools Wallet
- Safety Glasses
- 20 Rainbow Kits
- 20 Flashing Light Kits
- 20 Candle Kits
- 200 metres wire



**Newlands Primary, Borders,
used the kit to build a replica Dalek!**

A Rainbow in your Pocket

Press the button once: red, green, blue. Press it again: red, green, blue, faster and faster, until ... white! A lovely demonstration that white light is made up of the three primary colours. Press it again: the beam cycles through all the colours of the rainbow. Notice how they are all made up by mixing different amounts of red, green and blue. Press it again: the light stops at the colour you want. Can you stop it at the exact green/blue point where the beam shining on a wall looks like planet earth?

The Five Light Flasher

A twinkling circuit, perfect for lighting up Christmas cards. Mount your picture on cardboard or plywood, drill 5mm holes, put your LEDs on wires, and push them through. For bigger projects you can daisy-chain as many of these circuits as you need, all controlled by one switch.

The Everlasting Candle

A spookily realistic flickering electronic candle, perfect for Halloween inside a pumpkin lantern! No matches or fire to worry about, and it lasts for weeks. As an optional extra you can add a few components and make the candle come on automatically in the dark.

Kits are available to purchase for £300. Complete the online order form or email yesc@scdi.org.uk