

## 3RD AND 4TH CLASSES: USING A MICROBIT TO SWITCH ON AND OFF AN LED LIGHT

### BACKGROUND

The children are learning about electric circuits using batteries and pieces of wire and bulbs.

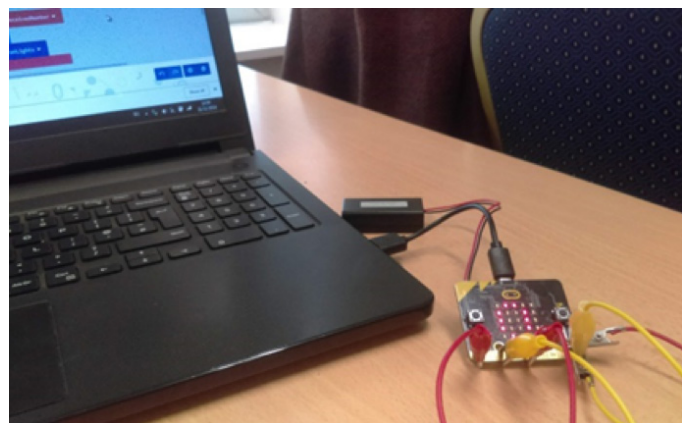
They were introduced to Micro:bits earlier in the year and they decided to create code and use Micro:bits to switch on and off the LED lights to demonstrate how circuits work.

### TASK

The children create a circuit using crocodile clips, a Micro:bit and an LED light.

When the circuit is completed they go to <https://makecode.microbit.org/> to learn how to use code to turn on and off the LED light.

An extension activity was to try and add another LED light and to code the Micro:bit to switch it on and off by pressing button A on the Micro:bit.



### CHILDREN'S WORK

The children worked in pairs to create the simple circuit using 2 crocodile clips, an LED light and a Micro:bit.

They then extended their initial circuit to include multiple crocodile clips.

They needed to make a number of attempts to code and debug their code to achieve the goal.

