5TH AND 6TH CLASSES: USING A MICRO:BIT TO MAKE ELECTRICAL CIRCUITS

BACKGROUND

The children are learning about electrical circuits in science. They are looking at the different parts of a simple electrical circuit – battery, conductor, bulb, buzzer and switch.

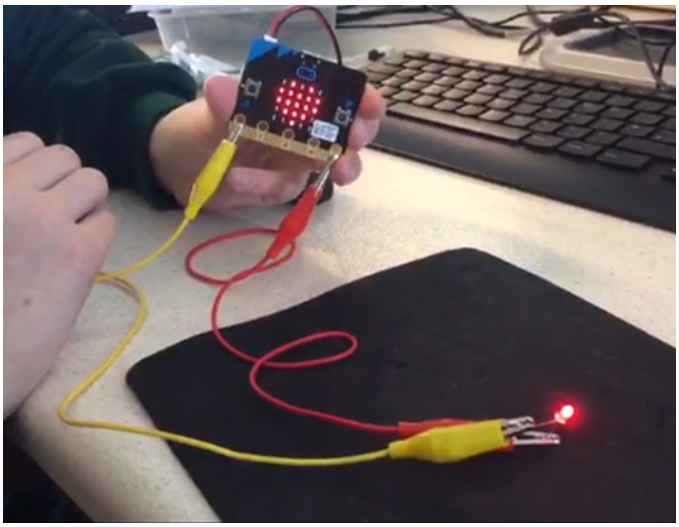
We discuss using Micro:bits for controlling electrical circuits.

TASK

Children work in pairs to plan their electrical circuit and the required code to make their circuits work. Their circuits can include lights, buzzers and speakers.

They are encouraged to test their code (using the online simulator) and debug before downloading to their Micro:bit. https://makecode.microbit.org/device/simulator

As an extension activity, children are asked to create a flashing light with a siren. Or attempt to design and create a game.



CHILDREN'S WORK

The children planned their electrical circuits in their copies and wrote, tested, debugged and downloaded the code to their Micro:bits.

They recorded and shared their work using iPads and posting to their online portfolios. They also had the opportunity to reflect on their work and the work of their peers.

Some children decided to continue working on this project for a number of lessons and made games.