

Microbit LED Strip Thermometer

60 minutes

Exploring Electronics and Light

WHAT THIS LESSON DOES

Begin by creating a new Microbit project and adding the neopixel extension. Set up the LED strip and program the A button to display the temperature. Light up the LED lights according to the temperature, with more lights for higher temperatures. Download your project, connect your LED strip to your Microbit, and watch the LED strip light up according to the temperature.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Develop skills to create and manage a new Microbit project.
- Understand and apply the neopixel extension to program the LED strip.
- Gain knowledge on setting up the LED strip and displaying temperature on the Microbit screen.
- Learn to light up the LED lights on the strip according to the temperature readings.
- Acquire practical skills in downloading the project, connecting the LED strip to the Microbit, and testing the functionality.

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HOW THE LESSON RUNS

- Create a new Microbit project
- Add the neopixel extension
- Setup the LED Strip
- Show the temperature
- Light up the LED lights
- Download the project and send it to your microbit
- Connect your LED Strip