

Week 1: Current, voltage and the breadboard

Mokxi · one-page lesson plan

OBJECTIVE

One loop: a supply, a switch, a resistor and an LED, wired on a real breadboard.

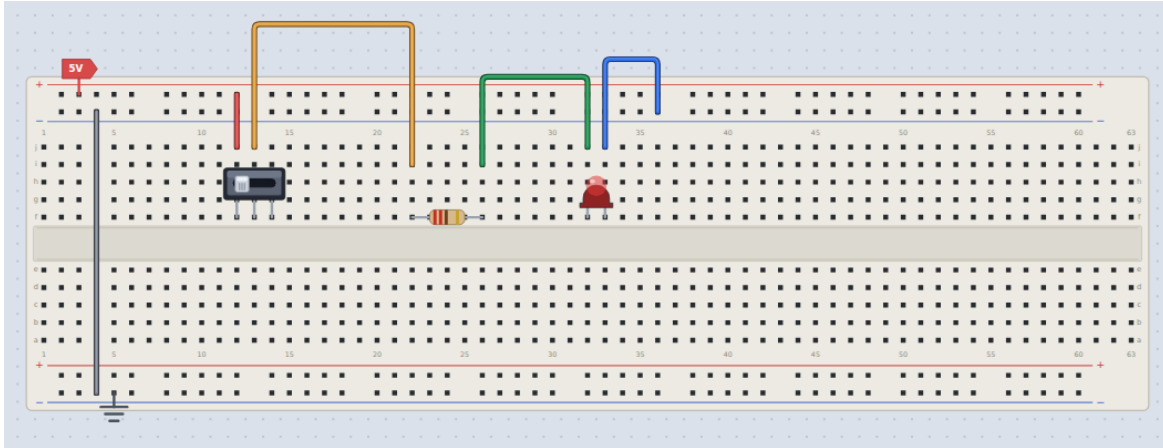
WHAT YOU NEED

breadboard, power and ground, slide switch, resistor, LED

STEPS

- Run it, then click the switch while it runs and say what the open position does to the loop.
- Change the resistor to 1 k, then 100 R, and write down the current you expect each time and the brightness you see.
- Find the value where the LED stops being visible.

THE CIRCUIT



ASSESSMENT IDEA

A wiring diagram of their own loop with the current calculated for their chosen resistor, submitted as a link to the running circuit.

<https://mokxi.com/curriculum#week-1>