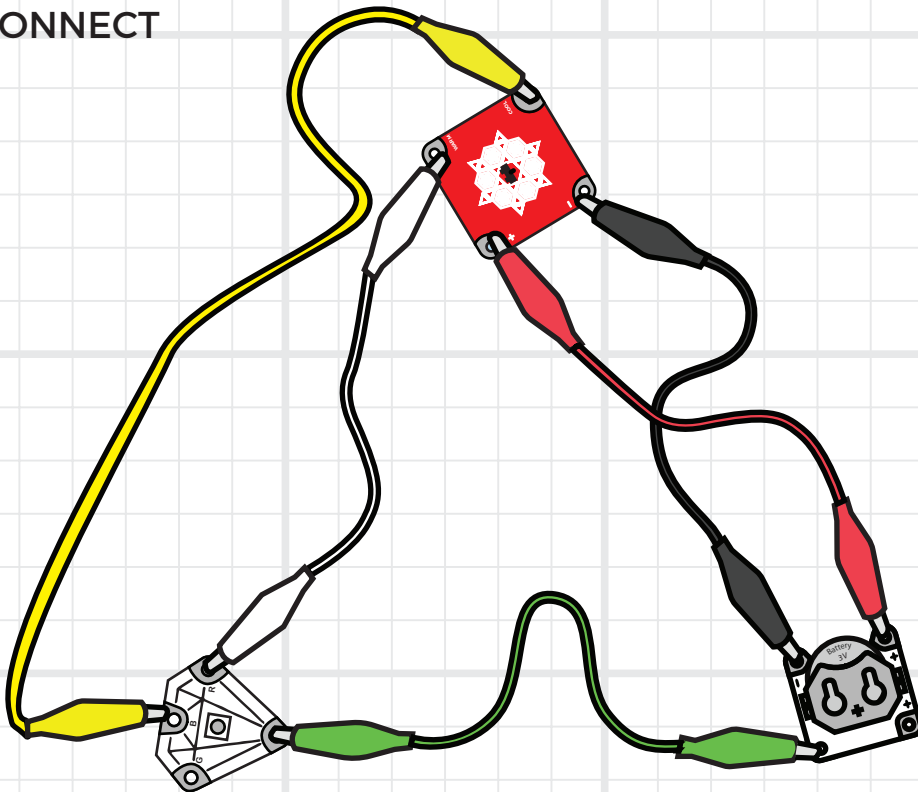


## Temperature Sensor Hookup Guide

### HOW IT WORKS

The Temp Sensor board works by detecting the temperature of the surface that it is on. When connected to the Color-Changeable LED board, if it senses a hot surface (above 80 F) it will trigger an output for the warm sensor and light up red, for example. If it senses a cold surface (below 65 F), it will trigger an output for the cold sensor and light up blue, for example.

### HOW TO CONNECT



To connect the sensor in a circuit first connect it to a power source. Use the Teknikio Battery board and connect the “+” and “-” pads to the matching pads on the Temp Sensor. Next, you can choose what color you want to assign for warm and cold on the Color-Changeable LED board. For this example we will connect warm to red, which is “R” on the LED board, and cold to blue, which is “B” on the LED board. You also need to connect the negative of the LED to the negative side of the battery to ground the circuit.

Insert a battery positive side up in the Battery board to test the circuit. Place the sensor on a hot surface (be careful not to burn yourself!) to see if the LED lights up red and on a cold surface to see if the LED lights up blue.