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Introduction To Modern Electronics – Lesson 3: The Resistor

SCHEMATICS

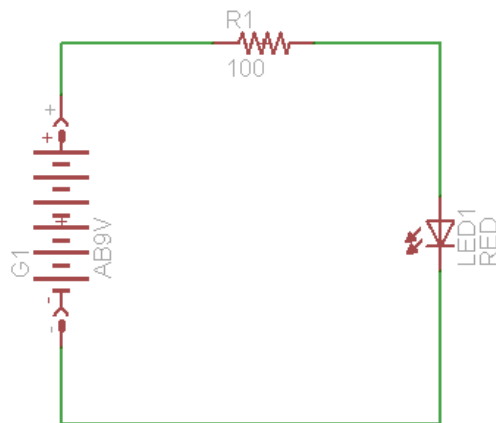
The following schematic material is meant to go with the online lesson found here:
<http://www.pyroelectro.com/edu/basics/resistor/>

SMALL VS. LARGER RESISTORS

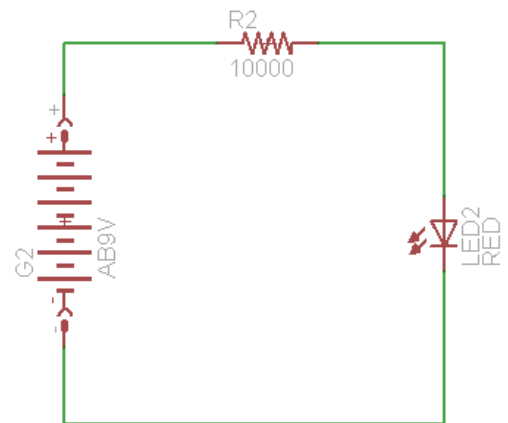
In this lesson, we performed an experiment that connected different values of resistors to a single LED. The point was to turn the LED on, however we noticed that with certain resistors the LED barely turned on, or it didn't turn on at all. The end result was that we learned larger values of resistors don't allow enough electrical current to flow from the battery to the LED, but smaller values of resistors allow all the electrical current the LED needs to shine brightly.

The schematic below is how we would represent the circuit we built in that experiment. With the smaller resistor below with 100Ω , and the larger resistor having $10k\Omega$.

LED On



LED Off



ADDITIONAL INFORMATION

To ask questions about anything found in this schematic please head on over to the forums located at:

<http://www.pyroelectro.com/forums/viewforum.php?f=22>