

LESSON 17

Voltage-Drop across LEDs

Watch video Lesson 17



Each LED is designed to operate at a certain amount of voltage. We call that voltage a voltage drop.

The Red, Yellow, and Green LEDs supplied in the Parts Kit for this Lab are designed to drop 2 volts at a current of 0.018 Amps (18 milliAmps).

The Blue and Clear LEDs that are supplied in the Parts Kit for this Lab are designed to drop 3 volts at a current of 0.014 Amps (14 milliAmps).

Observe the schematic diagrams below the pictures of the LEDs on the right and copy them.



Practice Quiz

These 3 LEDs are designed to drop 2 volts.



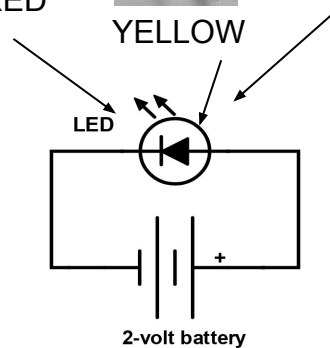
RED



YELLOW



GREEN



These 2 LEDs are designed to drop 3 volts.

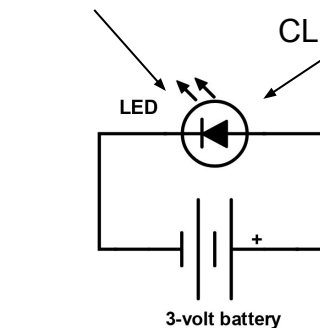
ud



BLUE



CLEAR



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Answer these questions	Activity Page	LED voltage drop	17b
<p>(1) In this lesson, we learned about how many colors of LEDs?</p> <p>_____</p> <p>(2) Are all LEDs designed to operate on the same amount of current?</p> <p>_____</p> <p>(3) What are the five colors of the LEDs used in this Lab?</p> <p>(a) _____</p> <p>(b) _____</p> <p>(c) _____</p> <p>(d) _____</p> <p>(e) _____</p>	<p>(4) The voltage that an LED uses is referred to as a:</p> <p>_____</p> <p>(5) Are the red and the blue LEDs designed to drop the same amount of voltage?</p> <p>_____</p> <p>(6) How much voltage does the red LED in this lab drop?</p> <p>_____</p> <p>(7) Draw the schematic symbol for a red LED.</p> <div data-bbox="652 812 1038 1024" style="border: 1px solid black; height: 184px; width: 222px; margin: 10px auto;"></div> <p>Copyright Mr Circuit Technology 2023</p>	<p>(8) Draw the schematic symbol for a blue LED.</p> <div data-bbox="1166 273 1551 484" style="border: 1px solid black; height: 184px; width: 222px; margin: 10px auto;"></div> <p>(9) Are the schematic symbols for the red LED and the blue LED the same?</p> <p>_____</p> <p>(10) Do all five of our LEDs have the same schematic symbol?</p> <p>_____</p>	