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If you are interested in learning more about the science of basic electronics, Wikipedia is a good place to start your search. By the end of this Instructable, anyone with an interest to learn basic electronics should be able to read a schematic and build a circuit using standard electronic components.

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Ohm's Law tells us that the current flowing through the circuit is the voltage (12 in this case) divided by the resistance (the sum of the two resistors, or 12k). Total current is thus:  $I = V \div R = (12 \text{ volts}) \div (2000 + 10,000 \text{ ohms}) = 12 \div 12000 = 0.001 \text{ amp} = 1 \text{ mA}$ . (remember that mA is the abbreviation for milliamps).

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