LESSON 26
Measuring Current With 1000 Ω

Using the meter setup procedure as explained in Lesson 23, build this circuit with a 1000 ohm resistor and measure the current.

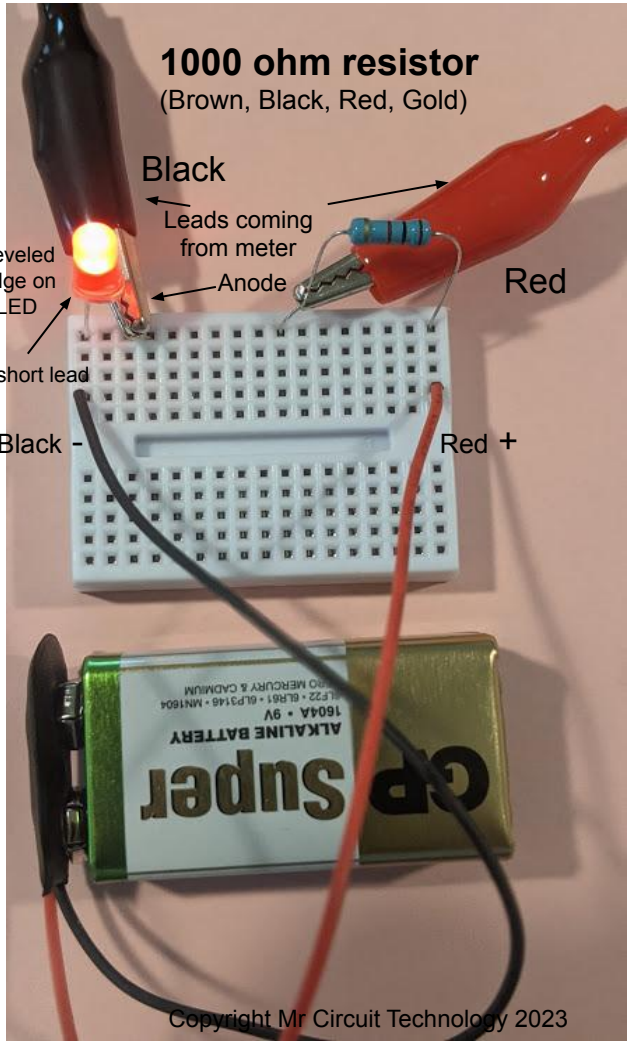
Use the picture on the right to help you build the circuit. Use meter probe tips instead of alligator clips to complete the circuit.

As you touch the tips to the circuit, observe the meter display to see how much current is flowing.

Our meter shows 7.40 mAmps. How much current is flowing in "your" circuit?

_____mAmps

Practice Quiz 26



Multimeter set up as an Ammeter to measure current (on 20 mA scale)

showing 7.40 mA of current flowing

Answer these questions	Activity Page	Comparing the current in a circuit with 1000 Ω	26b

(1) True or False? In this experiment, the black probe tip of the meter is touching the positive or Anode of the LED

_____

(2) What is the black probe tip of the multimeter touching?

_____

(3) Is one side of the 1000 ohm resistor connected to the red red wire on the battery snap?

_____

(4) The electrons leave the battery from the negative side and travel first through the

_____

(5) True or False? The multimeter in series with the rest of the circuit?

_____

(6) Is the LED less bright than in Lesson 25?

_____

(7) If we remove the meter from the circuit, will the LED continue to be lit?

_____

(8) True or False? There is less current flowing now than in Lesson 25 because we have increased the ohms of the resistor in the circuit.

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(9) How many **milliAmps** is it showing on the multimeter display on page 26a?

_____

(10) How many **milliAmps** was showing on your multimeter display when you built this new circuit?

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