

### LESSON 27

#### Measuring Current with 3300 $\Omega$

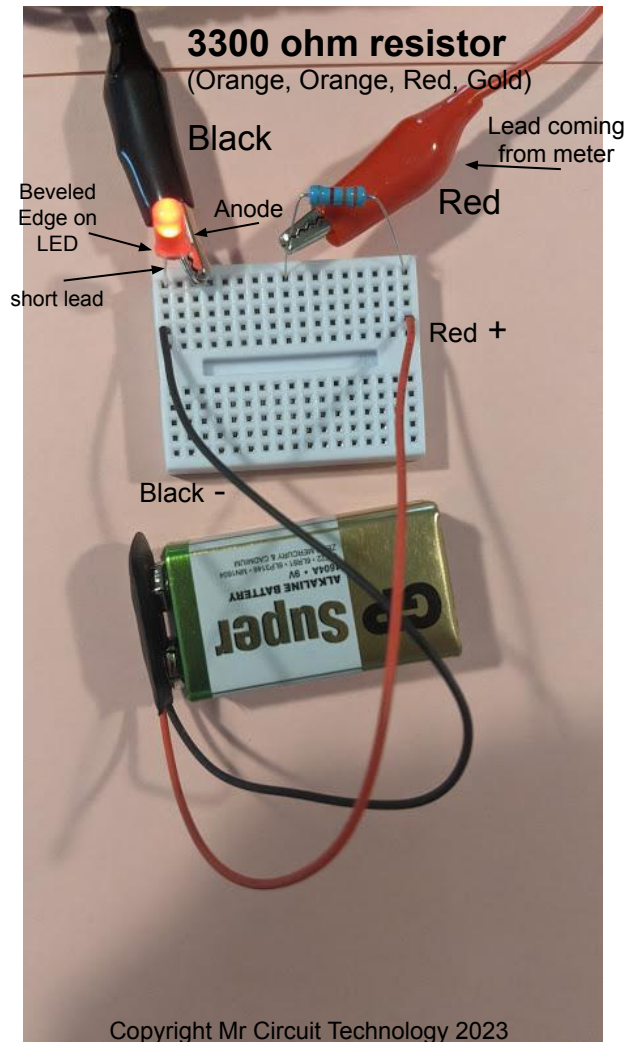
Using the meter setup procedure as explained in Lesson 23, build this circuit with a 3300 ohm resistor and measure the current.

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 2.29 mAmps. How much current is flowing in "your" circuit?

\_\_\_\_\_ mAmps



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



showing 2.29 mA  
of current flowing



Practice Quiz 27

Copyright Mr Circuit Technology 2023

Answer these questions	Activity Page	Comparing the current in a circuit with 3300 $\Omega$	27b
<p>(1) As we are adding more ohms to the circuit, is the LED getting more bright?</p> <p>_____</p> <p>(2) Which resistance caused the LED to be brighter, 470 ohms or 3300 ohms?</p> <p>_____</p> <p>(3) Is 3.3k ohms another way of saying 3300 ohms?</p> <p>_____</p> <p>(4) As your battery gets weaker, the LED will get</p> <p>_____</p>	<p>(5) True or False? Our multimeter is connected in parallel with the circuit?</p> <p>_____</p> <p>(6) Is the red meter probe tip connected to the Anode of the LED?</p> <p>_____</p> <p>(7) If we reverse the LED leads, will the LED light up?</p> <p>_____</p> <p>(8) True or False? The beveled edge on an LED indicates the Cathode of the LED.</p> <p>_____</p> <p>Copyright Mr Circuit Technology 2023</p>	<p>(9) How many <b>milliAmps</b> is it showing on the multimeter display on page 27a?</p> <p>_____</p> <p>(10) How many <b>milliAmps</b> was showing on your multimeter display when you built this new circuit?</p> <p>_____</p> <div data-bbox="1114 624 1628 973" data-label="Diagram"> </div> <div data-bbox="1541 911 1663 1065" data-label="Image"> </div>	