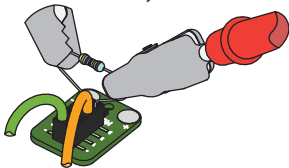


Performing a Sweep

1. Remove all components from the Hacker Board, except the anode wire (**green**). Plug the cathode wire (**orange**) into Pin 3.
2. Switch the multimeter setting to "2000 m," and plug the **red** probe (+) into the "V Ω mA" port and the **black** probe (-) into the "COM" port. Attach the alligator clips to the tips of the probes.
3. Plug a resistor into Pin 5 and Pin 6 (orientation does not matter). Identify and record its value using the color chart on the other side of this card.
4. After 15 minutes, check the voltage by clipping the multimeter's **red** probe (+) to the resistor's wire in Pin 5, and the multimeter's **black** probe (-) to the resistor's wire in Pin 6 as shown below. Record the measured voltage.
5. Repeat Steps 4 and 5 for all resistors provided, noting the measured voltage as it corresponds to each resistor. Follow the instructions on the other side of this card to calculate the power and plot your data. Don't forget to turn off the multimeter when you're done!



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