Using Your Multimeter

ME 120

Your Multimeter

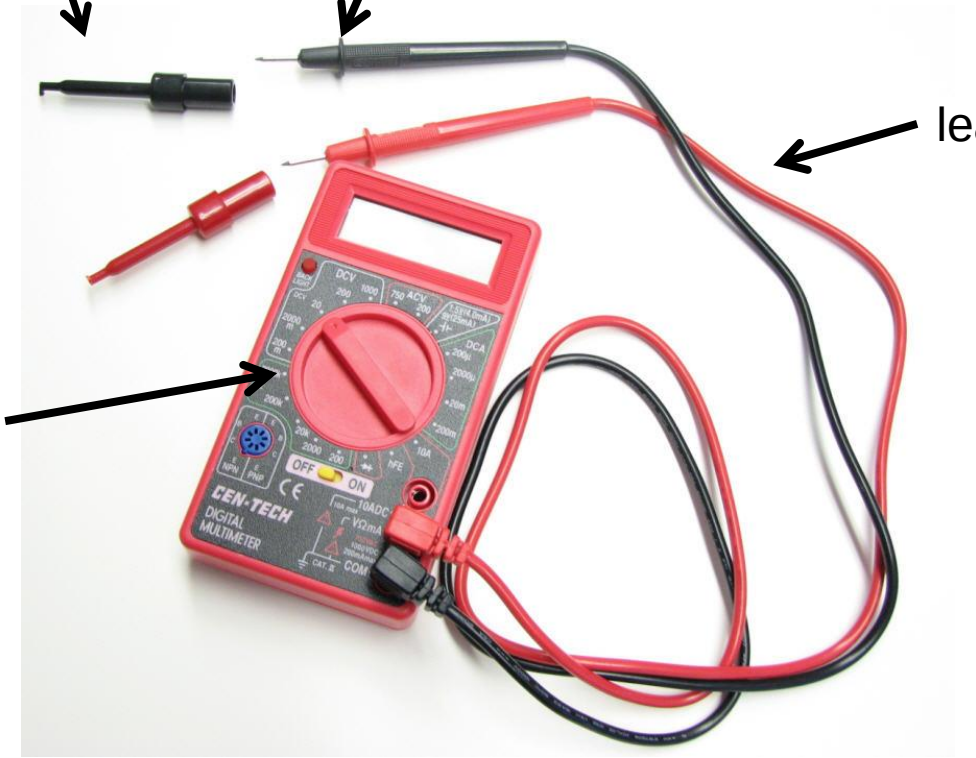
pincer clips – good for working with breadboard wiring

(push these onto probes)

probes

leads

Turn knob to select the type of measurement.

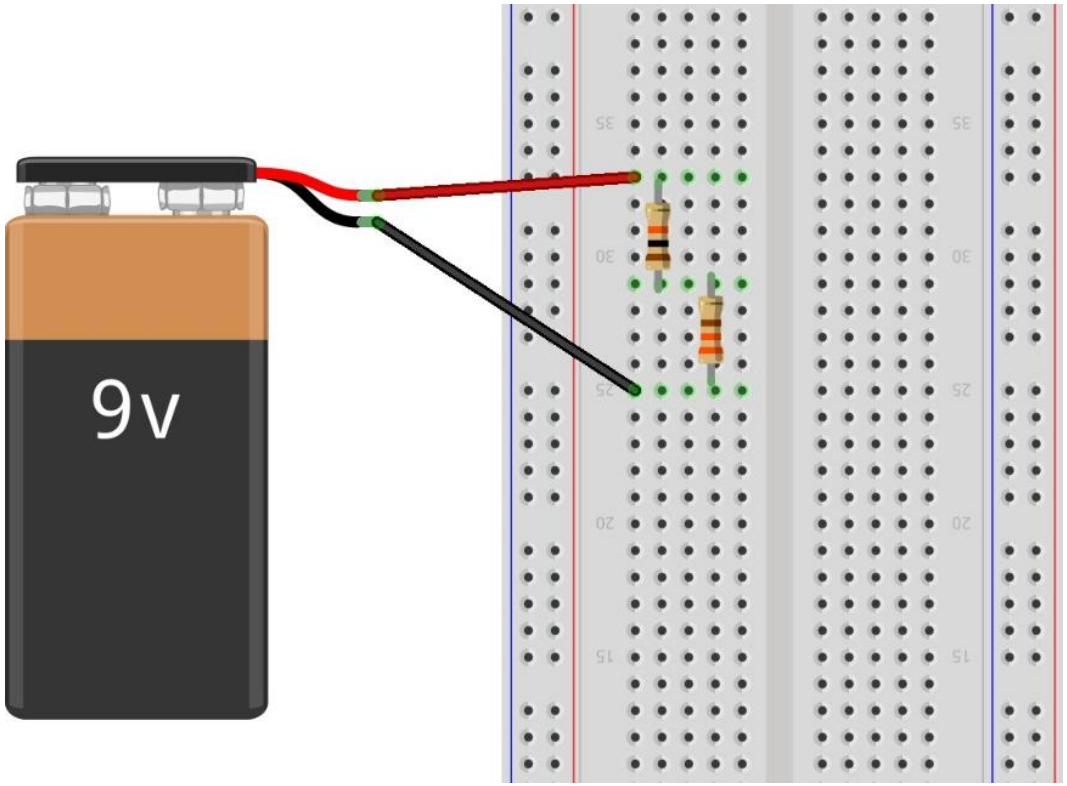


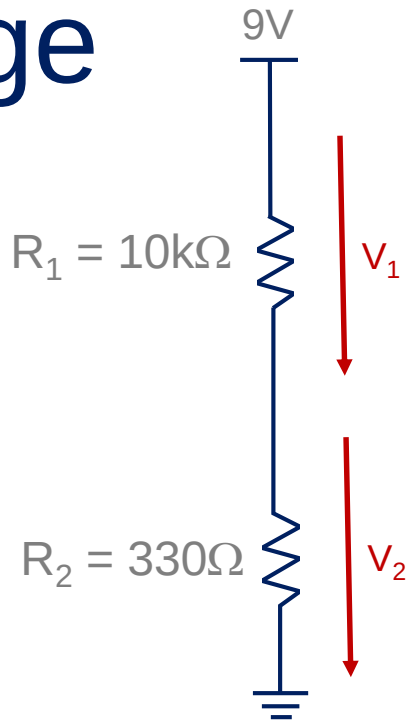
You will use the multimeter to understand and troubleshoot circuits, mostly measuring DC voltage, resistance and DC current.

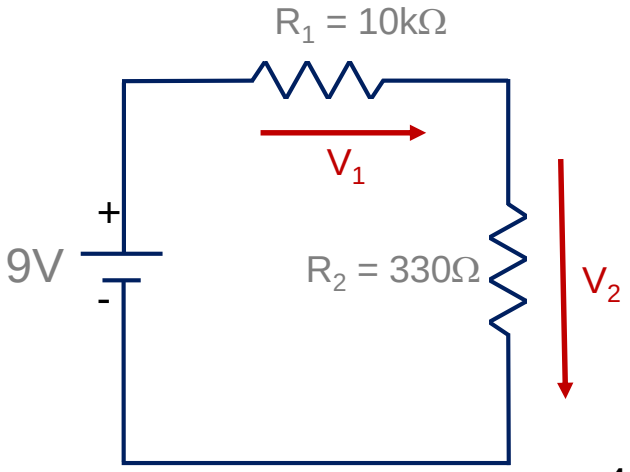
Measure Voltage

- Probes of multimeter touching each terminal of the battery
- Probes of multimeter at different points in the circuit

Measure Voltage





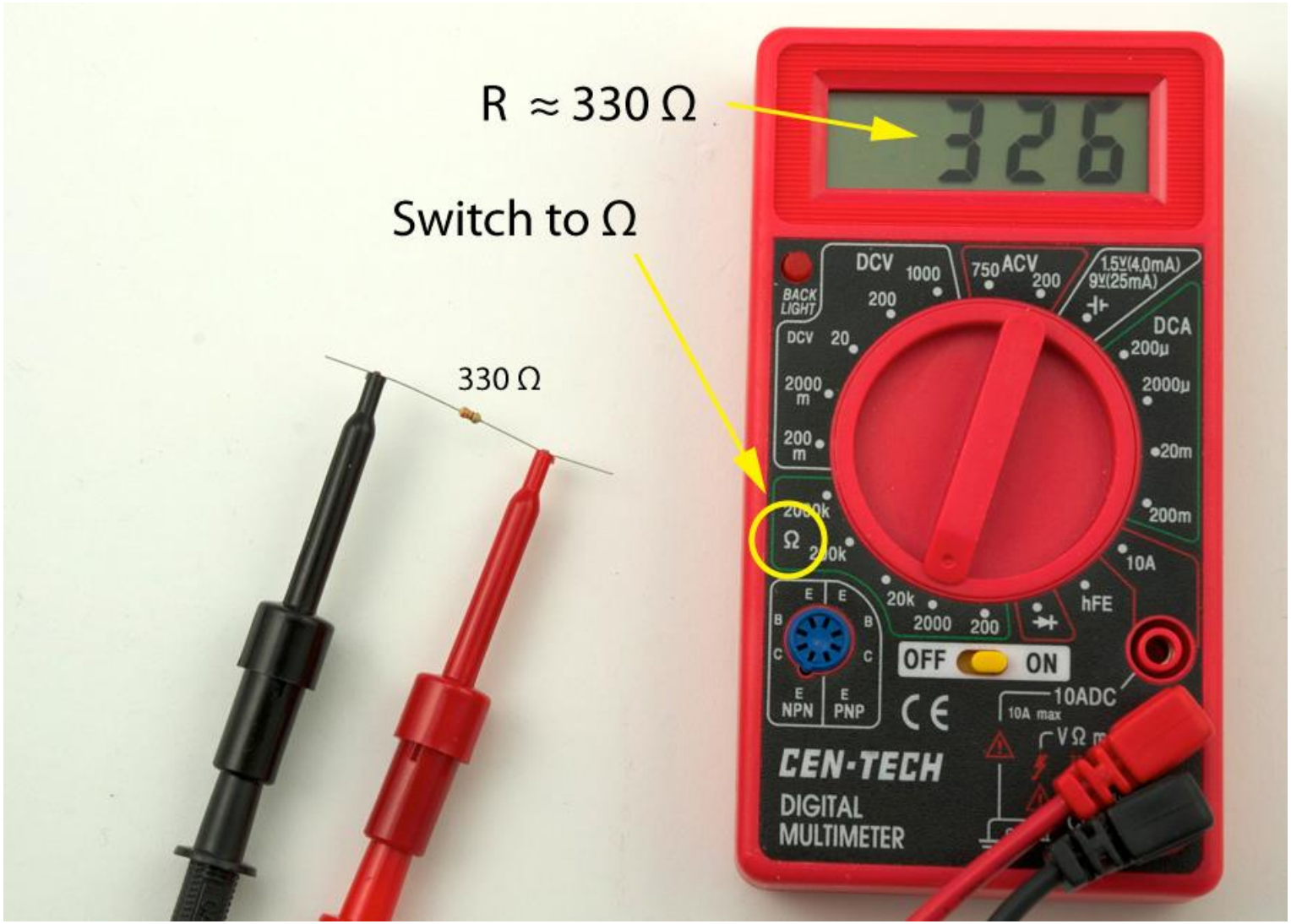


Multimeter is set in parallel

Measure Resistance

- Probes of multimeter touching each terminal of the resistance
- No need to connect the resistance to a power supply

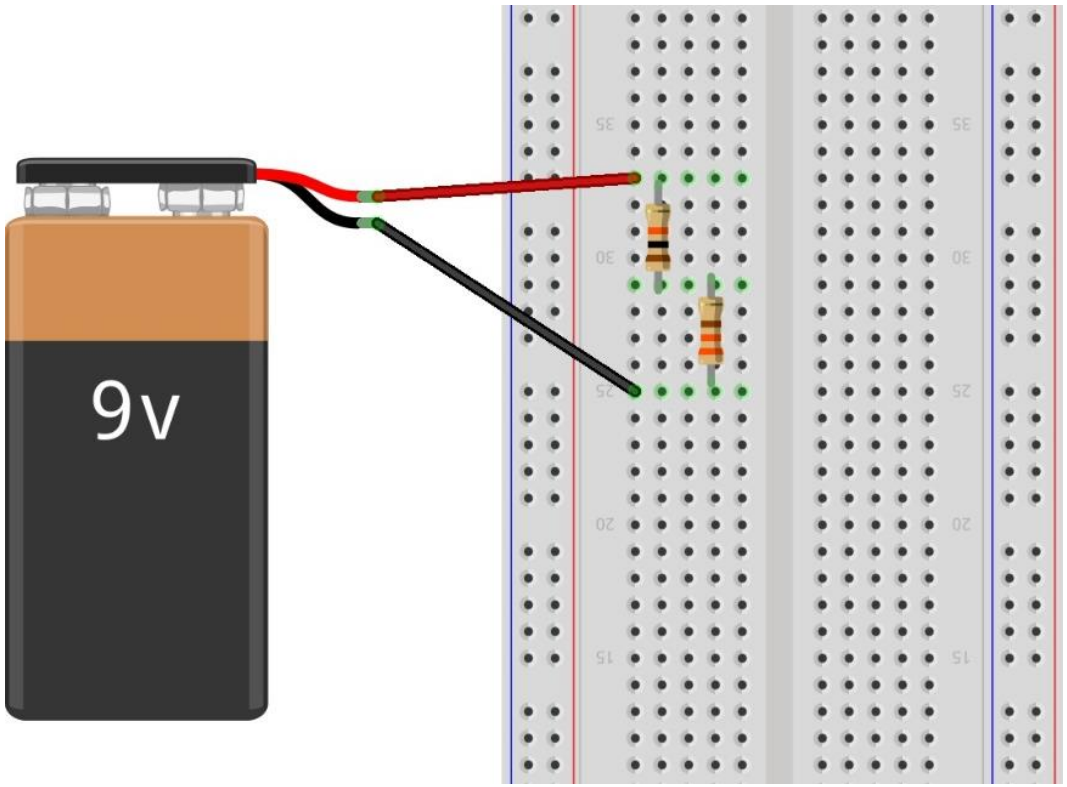
Measure Resistance

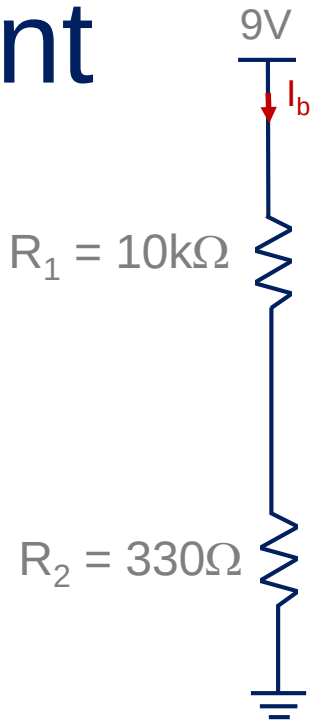


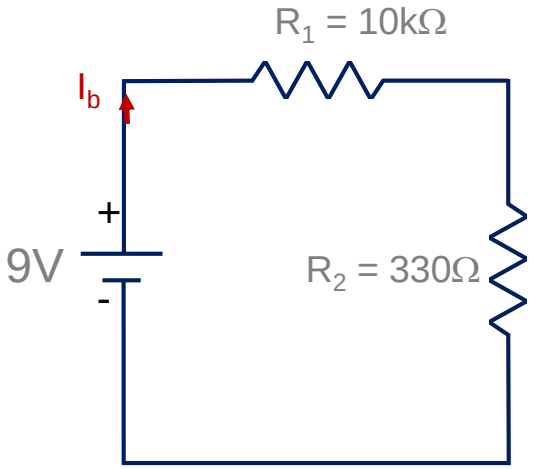
Measure Current

- Probes of multimeter bridging the gap in the circuit: It has to be connected in series.
- Need to compute the range of current going through before taking measurements.

Measure Current







Multimeter is set in series