
22.11.1. Activity: Single Bulb Current/ Voltage Measurements

- a. Measure the voltage across the battery when the switch is closed and the light is lit.

Voltage across the battery (with one bulb): _____ Volts

- b. Measure the current through the circuit, that is, drawn from the battery when the switch is closed and the light is lit.

Current drawn from the battery (with one bulb): _____ Amps

Now suppose you connect a second bulb in the circuit as shown in Figure 22.17.

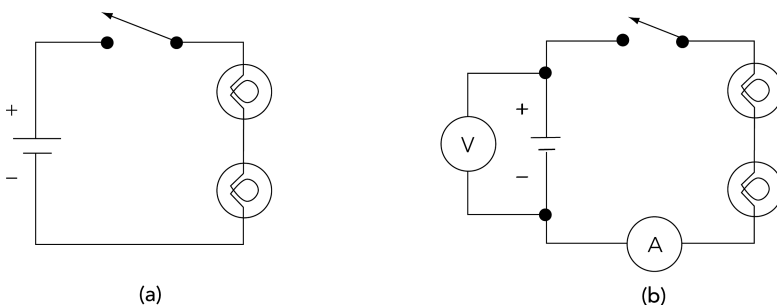


Fig. 22.17. Two bulbs connected to a battery without meters attached and with a voltmeter and ammeter set up to measure voltage across the battery and **current** through the circuit.

22.11.2. Activity: Current and Voltage for Two Bulbs

- a. How do you think the voltage across the battery will compare to that with only one bulb? Will it change significantly?

- b. What do you think will happen to the brightness of the first bulb when you add a second bulb to the circuit? Will it get brighter? Dimmer? Remain the same?