

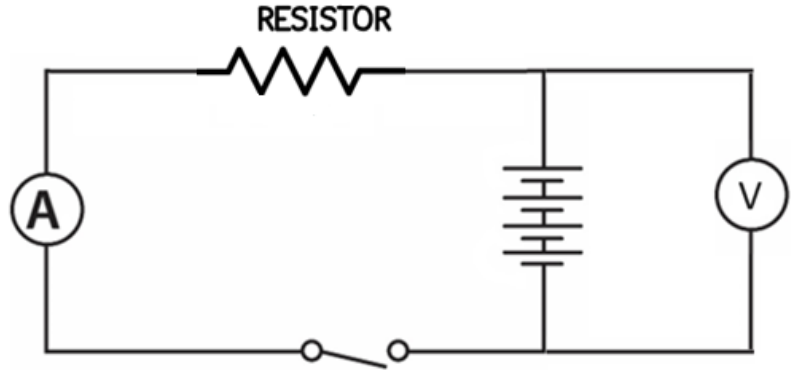
Mystery Resistor Lab

Objective

Construct a simple circuit and use multimeter measurements to determine an unknown resistance

Equipment Batteries, Wire, Resistor, Ammeter, Volt meter.

Experimental Method



1. Construct the circuit shown.
2. Use a volt meter to measure the voltage across the resistor.
3. Use an ammeter to measure the current directly before or after the resistor.
4. Use the voltage and current measurements to determine the resistance of the mystery resistor.

Record the Theoretical Resistor Value	Record the Measured Voltage (V)	Record the Measured Current I (A)	Calculate the Resistance $V = IR$
10 ohms			
22 ohms			
47 ohms			
100 ohms			

