

PhET Lab: Ohm's Law & Series and Parallel Circuits

Objectives:

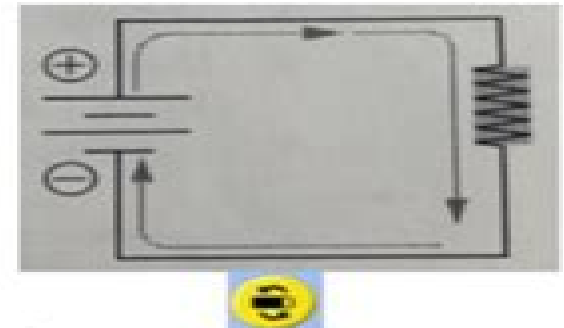
1. Determine how to calculate the total resistance in a series circuit.
2. Build and analyze parallel circuits.
3. Determine how total current and branch currents are related in parallel circuits.

Google "PhET Circuit Construction Kit: DC Virtual Lab" and start the simulation.

Part I: Series Circuits

Procedure:

1. Build a circuit that has TWO small batteries and ONE resistor (R1), like in the picture to the right.
Make sure the current is flowing clockwise. If it is flowing counterclockwise, click on each battery and flip it around using the yellow battery button on the bottom of the page.
2. Record the battery voltage in the data table.
3. Set the resistance of the resistor to a resistance between 1 and 10 ohms. Record the current in the data table.
4. Add a second resistor (R2) ABOVE the first resistor and set it to a resistance between 1 and 10 ohms. Record the current in the data table.
5. Add a third resistor (R3) to the circuit ABOVE the first two resistors and set it to a resistance between 1 and 10 ohms. Record the current in the data table.
6. Using Ohm's Law (in the form $R = \frac{V}{I}$), calculate total resistance in each circuit, using the battery voltage and current for each circuit.



Combined voltage of the two batteries = _____

Resistance of R1 = _____ Resistance of R2 = _____ Resistance of R3 = _____

	Circuit with R1	Circuit with R1 and R2	Circuit with R1, R1 and R3
Current in amps			
Resistance in ohms (calculated)			

Study your calculated resistances in Table 2. What is the rule for calculating total resistance in a series circuit, from individual resistances? (3 pts)

Answerkey Phet Simulation

R Barnett

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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