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Learning Intentions

- Learn how to make resistor circuits on a breadboard.
- Learn how to measure the voltage of resistors in a circuit
- Learn how to calculate the current through a resistor

Procedure

- 1. Get a packet of 5 resistors and a breadboard from the teacher.
- 2. Measure the resistance of each resistor with a multimeter.
- 3. Draw a circuit that uses all 5 resistors and a 3V battery. The more complex the circuit, the higher the mark.
- 4. Make the circuit using the breadboard and the resistors.
- 5. Have the teacher approve your circuit (i.e. make sure there are no short circuits), and show you how to use the DC power supply to provide 3 V for the circuit.
- 6. Attach the power supply to the circuit with a supply voltage of 3V.
- 7. Measure the voltage across each resistor.
- 8. Calculate the current through each resistor.

Data, Calculations, and Schematic

Draw the schematic for your circuit using 5 resistors (R1 through R5) and 1 3V battery (B1).

Mr. Renwick's Science 9 Lab - Resistor Circuits

Record the resistance, voltage, and current for each of your resistor in the table below.

Resistor	Resistance (Ω)	Voltage (V)	Current (A)
R1			
R2			
R3			
R4			
R5			