



RESISTORS IN SERIES AND PARALLEL

Guide Questions

40% of the Written Report (Group Report) grade

1. What instrument was used to measure current and how is it placed in a circuit to measure the current through a device?
2. What instrument was used to measure voltage and how was it placed in the circuit to measure the voltage across a device?
3. For resistors in a series connection, what equation relates the total voltage and the voltages across each resistor in the circuit? What is the relationship between the currents through each resistor in a series connection?
4. For resistors in parallel, what equation relates the total current and the current through each resistor in the circuit? What is the relationship between the voltages across each resistor in a parallel connection?
5. Are the light bulbs in your home wired in series or in parallel? How can you tell?