## Lab - Circuits Data and Observations

Program 903

## Part A

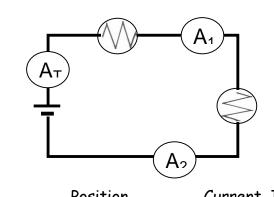
No. of Resistors in Series Circuit	Brightness of Bulb(s)	Total I (amps)
1		
2		
3		

What happened when one bulb was unscrewed?

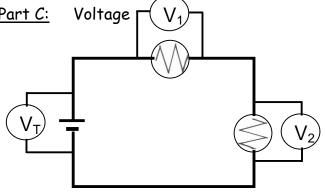
## Conclusion:

As more resistors are added to a series circuit, the total current (increases, decreases), so total resistance (increases, decreases).









Position	Current, I	Voltage, V	Resistance, R=V/I
total			
R <sub>1</sub>			
R <sub>2</sub>			

## Conclusions:

- 1. Within bounds of experimental error, the current in different parts of the series circuit is (the same, different).
- 2. Within bounds of experimental error, the voltage drops across each resistor in this series circuit (is the same as, adds up to) the total voltage supplied by the battery.
- 3. Within bounds of experimental error, the total resistance of the circuit is the (same as, the sum of) the resistance of each bulb.