

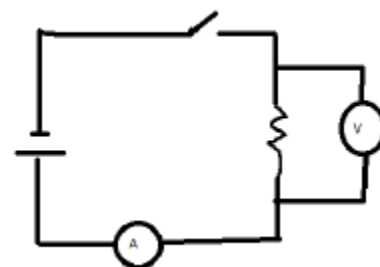
Lab Title: Exploring Voltage

Problem: How does voltage around a circuit compare?

Materials: small light bulb, electric cells (2), electric cell holder, switch, connecting wires, ammeter, voltmeter

Procedure:

1. Connect a light bulb to an electric cell with a switch in series. Connect the switch to the negative end of the source before the light bulb
2. Insert a voltmeter into the circuit in parallel with the load (refer to diagram)
3. Draw a circuit diagram of your circuit.
4. Draw an arrow to indicate the flow of electrons
5. Close the switch. Measure electric potential difference of the light bulb.
6. Open the switch, remove voltmeter and place it on either side of the source.
7. Close the switch and measure the voltage.
8. Measure the current anywhere in your circuit
9. Complete steps 1-8 using a battery (2 cells)



	Voltage	
	1 cell	2 cells
Source		
Load		

	Current	
	1 cell	2 cell
Anywhere in circuit		

Results:

1. How does the voltage compare between source and load?
2. What happens to voltage as more cells are added?
3. What happens to the current as voltage increases?