Electric Circuits Auxilliary Items

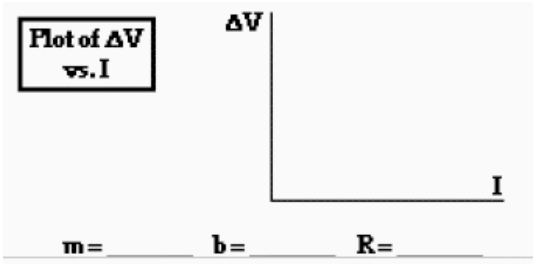
For Voltage-Current-Resistance Lab

(Tape the following into your Data section and complete.)

Data:

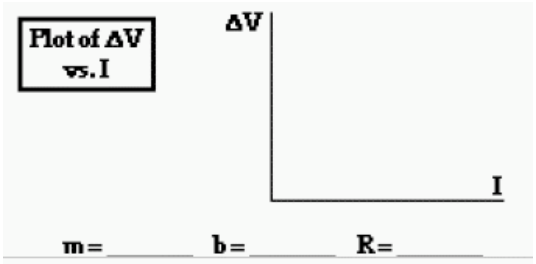
Resistor #1: R = _____ Ω (based on color code)

# of Batteries	ΔV (Volts	I (Amps)
1		
2		
3		
4		



Resistor #2: R = _____ Ω (based on color code)

# of Batteries	ΔV (Volts	I (Amps)
1		
2		
3		
4		



For Energy Audit Activity

(Tape the following into your Data section and complete.)

Data:

Electrical Device	Time* (h)	Power (W)	or Current (A)	Energy (kW•h)	Cost** ($)

* Estimated weekly time for the entire household

** Calculated based on the cost of $0.15/kW•h

Data:

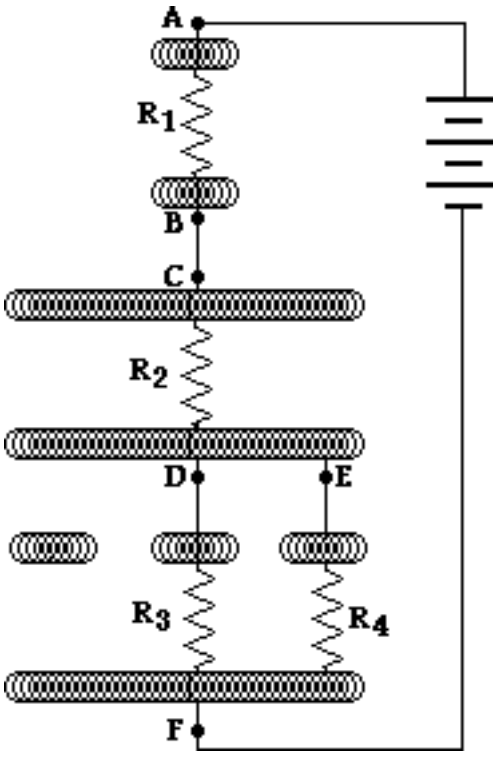
Electrical Device	Time* (h)	Power (W)	or Current (A)	Energy (kW•h)	Cost** ($)

* Estimated weekly time for the entire household
** Calculated based on the cost of $0.15/kW•h

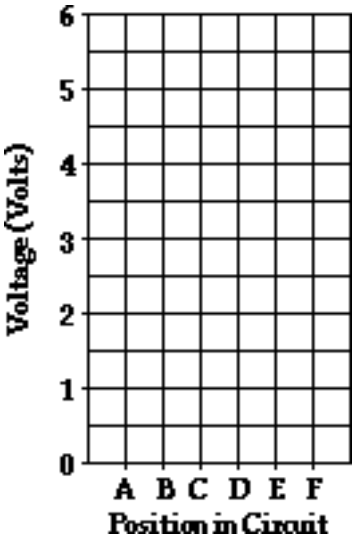
For Combination Circuits Lab

(Tape the following into your Data section and complete.)

Data:



Record voltmeter readings



	Measured Current (A)	Measure ΔV (V)	Calculated Resistance (Ω)	Theoretical Resistance (Ω) -color bands-	Percent Error
R_1			$\Delta V / I =$		
R_2			$\Delta V / I =$		
R_3			$\Delta V / I =$		
R_4			$\Delta V / I =$		
Total (Battery)			$\Delta V_{tot} / I_{tot} =$	$R_{eq} =$ (use eq'n)	

Clearly show your calculations for the resistance (in cells) and the percent error (using calculated and theoretical resistance values) for each of the four resistors.