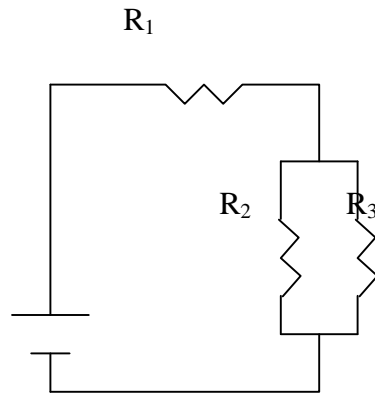


Phys Science 436
Ohm Zone Lab 1

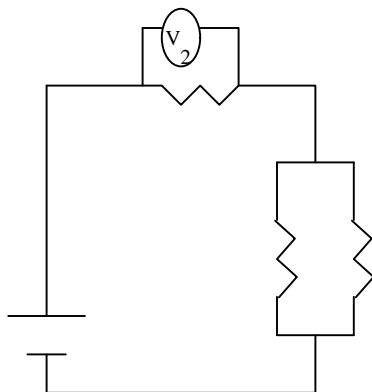
Name _____

1. Start the program 'Ohm Zone'. Be patient. It takes a while to load up.
2. Make a combination circuit equivalent to the following, letting $R_2 = R_3$. Use the top blue resistor for R_1 and the green ones for R_2 and R_3 .



3. Draw what your circuit actually looks like.

4. Click the *visualize* button.

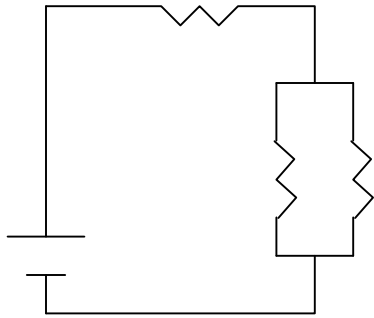


- 5.

One at a time measure the potential differences.

$V_1 =$
 $V_2 =$
 $V_3 =$
 $V_4 =$

6. One at a time, measure all the currents.



$A_1 =$

$A_2 =$

$A_3 =$

7. Calculate the total resistance using total voltage and total current.
8. Calculate R_1 , R_2 and R_3 .
9. Compare A_2 to A_3 when R_3 is replaced with another resistor. Try the yellow one.
10. Compare V_4 to V_3 when R_3 is replaced with another resistor. Try the yellow one.
11. Explain your results for #'s 10 and 11.