**Interactive Activity**

**Part One**

1) Read this information about Ohm’s Law and try the interactive activity at the bottom of the page.

<http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel_pre_2011/electricityintheory/voltagecurrentresistancerev3.shtml>

Record your score here:

If you find the task difficult, have a look at this information <http://www.passmyexams.co.uk/GCSE/physics/using-equation-V-IxR.html>

2) Write a very brief summary of the law.

**Part Two**

Open the interactive circuit maker

<http://www.physicsclassroom.com/Physics-Interactives/Electric-Circuits/Circuit-Builder/Circuit-Builder-Interactive>

1) Complete the three worksheets using the interactive circuit for your data.

2) Go back to the circuit maker and design your own circuit. You want to test what happens when you vary the current and keep the resistance the same. Create a table like the one below in Excel. Make room for 10 sets of results.

What was the resistance?

|  |  |
| --- | --- |
| **Current** | **Voltage** |
|  |  |
|  |  |

Now use Excel to plot a line graph of your results. Make sure the graph is fully labelled and clear.

What is the gradient of your line?

What is the y intercept?

Show a linear equation for your graph below.