

Name _____
Class _____ Date _____

Planning Lab – Resistance

You have seen the set of resistance wires we have at school. There are lots of variables that can affect the resistance of a wire. You will choose two and investigate them.

There is a list of apparatus that may be useful below, but you must choose only those pieces you need. If you need anything not on the list, talk to me – and I may be able to supply it (no, not cups of coffee or McDonalds).

Apparatus list: resistance wires; multimeters; light bulbs; metre rules; ‘normal’ rulers; micrometers; connecting wires; bench power supply; rheostats. Remember that when using multimeters, voltmeters and ammeters are different, and if you want to use the ohmmeter, there must be no power supply connected.

Your report will be assessed for all the IB criteria (including manipulation and personal skills). Your results must include at least one graph. Don’t forget to include any circuits you use in the method.