## Resistance

Organise the method used to obtain results for resistance of a wire:

- Record the length of the wire, the reading on the Ammeter and the Voltmeter.
- Adjust the voltage so that it stays the same.
- Calculate and record the resistance for each length of wire using the equation:
- Change the length of the wire by a fixed amount.
- Set up the apparatus as shown in the circuit diagram.
- Repeat until you have several pairs of meter readings

|  |
| :--- |
| $\begin{array}{l}\text { Complete the following Calculations in the table, } \\ \text { using the rearranged equations in the next box: }\end{array}$ |



## Risk Assessment:

Suggest what the risks are in this experiment. Describe what you should do to minimise the risks.
1.
2.
3.

Calculating the Resistance of the wire at various lengths uses the following equation:



