

- (c) The student extends the investigation by keeping the mass constant and replacing the cell with a variable power supply.

The student measures the current in the circuit for different voltages.

These are the results.

Voltage in V	Current in mA
0.0	0.0
2.0	4.0
4.0	7.0
6.0	11.0
8.0	14.0

- (i) State the independent variable in the student's investigation.

(1)

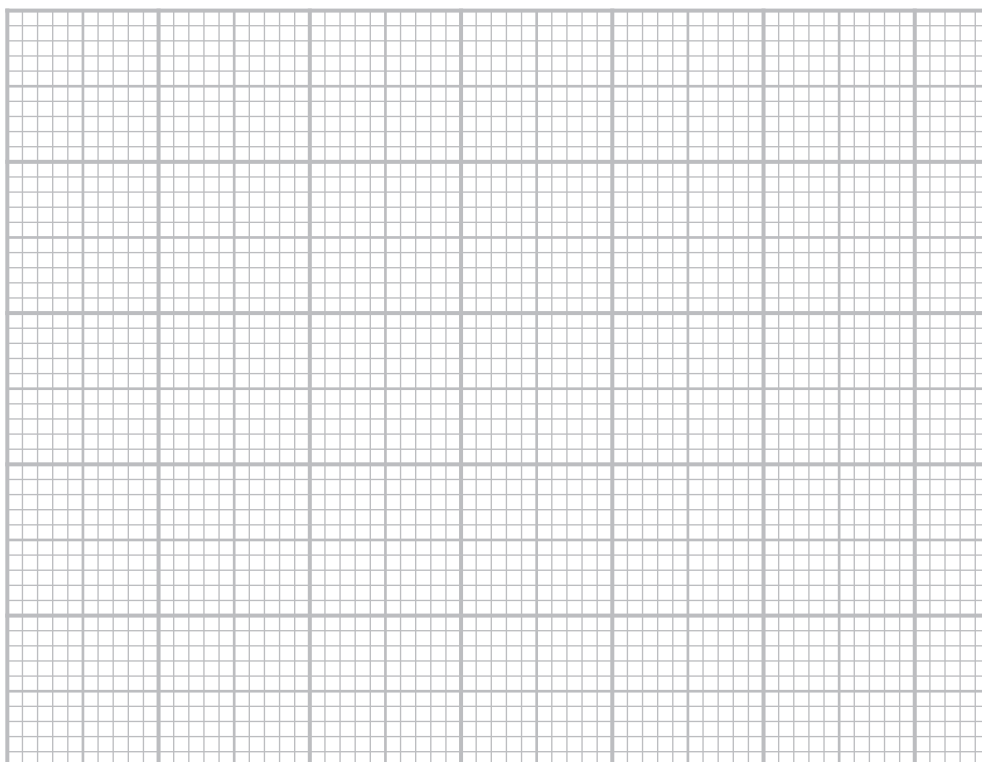
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- (ii) Plot the student's results on the grid.

(3)

- (iii) Draw a line of best fit.

(1)





**(Total for Question 12 = 15 marks)**

**TOTAL FOR PAPER = 110 MARKS**



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