(b) The student completes her investigation.

The table shows her results.

Voltage in V	Current in mA
0.00	0
0.10	0
0.20	0
0.30	0
0.40	0
0.50	2
0.60	8
0.70	33
0.80	140

(i) Plot a graph of the student's results on the grid.

Plot current on the y-axis and voltage on the x-axis.
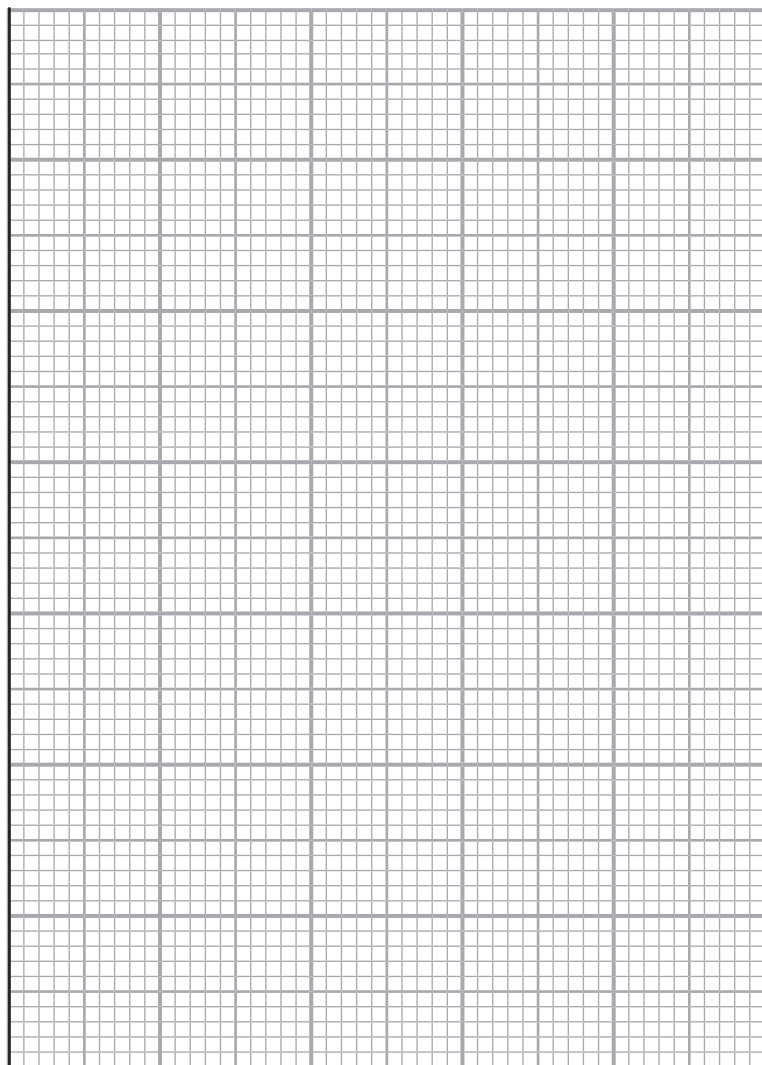
(3)

(ii) Draw a curve of best fit.

(1)

P 6 5 0 6 4 A 0 1 4 3 2

(iii) State the name of component X.

(1)

....

(Total for Question 5 = 9 marks)