(b) The table shows the results of the investigation.

Current in mA
0.0
0.5
2.5
1.5
2.0
4.5
9.0
15.0

(i) Plot the results on the grid.

(3)

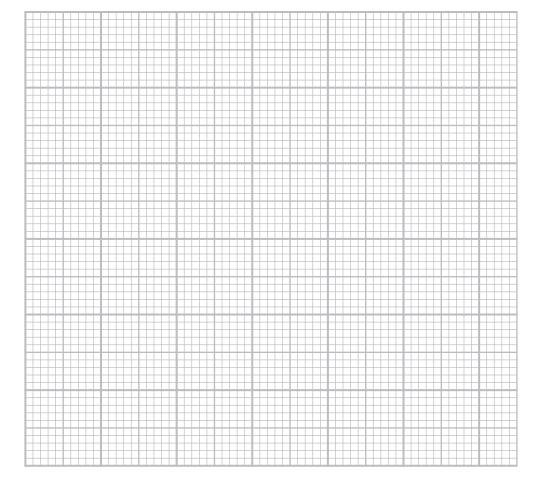
(ii) One of the results is anomalous.

On the graph, draw a circle around the anomalous result.

(1)

(iii) Draw a curve of best fit.

(1)



(iv) Give a reason why a line graph is the best way of showing these results.	(1)
(v) State the formula linking voltage, current and resistance.	(1)
(vi) Any current larger than 15 mA will permanently damage the LED.	
The resistor in the circuit has a resistance of 270 Ω .	
Use the results from the investigation to determine the maximum voltage of the power supply without damaging the LED.	(4)
maximum voltage =	
(Total for Question 5 = 14 ma	arks)

