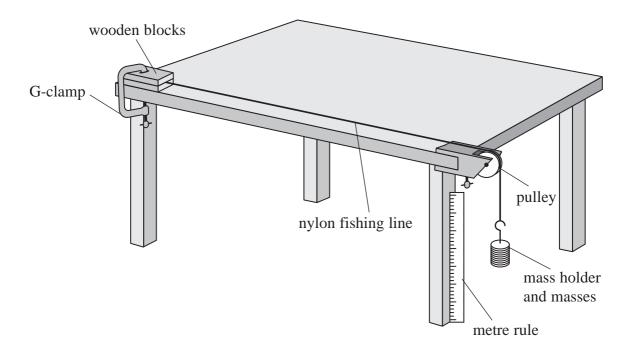
1 A student stretched a length of nylon fishing line using the apparatus shown below.



(a) The nylon fishing line was stretched by adding masses to the mass holder. The positions of the bottom of the mass holder were measured as masses were added. For each mass, the extension of the nylon fishing line was calculated. The student recorded the results, as shown in the table.

Mass / kg	Extension / cm
0.05	0.4
0.1	0.8
0.25	2.1
0.5	3.9
0.75	6.0
1.0	7.2

Criticise the recording of these results.	(2)
(b) Describe how the extension of the nylon fishing line could have been determined as accurately as possible.	(3)
(c) The strain for the nylon fishing line at its yield point is 0.04	
(i) State what is meant by yield point.	(1)
(ii) The original length of the nylon fishing line was 2.00 m.	

Determine whether the fishing line was stretched beyond its yield point.

(Total for Question 1 = 8 marks)

(2)