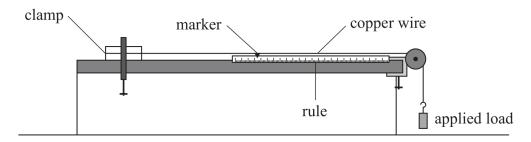
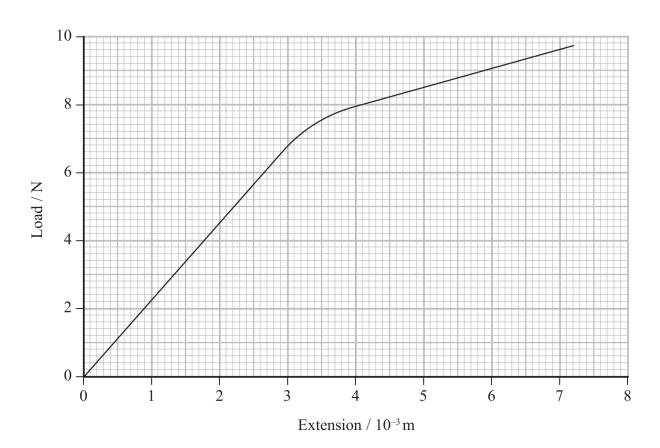
16 A student carried out an experiment to determine the Young modulus of copper. She used the apparatus below to observe the position of a marker as a copper wire extended under increasing applied loads.



(a) Describe how the diameter of the wire should have been determined.

(3)

(b) The student calculated the extension of the copper wire for each applied load. She then plotted a graph of load against extension.



(Total for Question 16 = 13 marks)

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