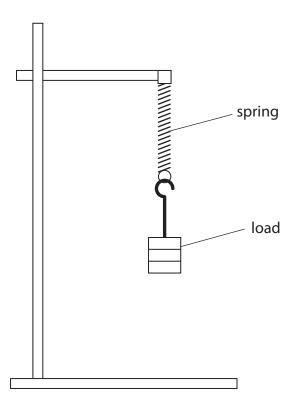
9 A student investigates how the extension of a spring varies when he hangs different loads from it.



(a) Write a plan for the student's investigation.

Your plan should include details of how the student can make accurate measuren	nents.
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You may add to the diagram to help your answer.

Tod may add to the diagram to help your answer.	(5)

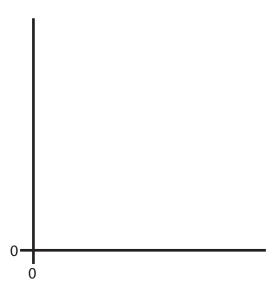


(b) The student finds that the spring obeys Hooke's law.

Draw a graph on the axes to show the Hooke's law relationship.

Label the axes.

(3)



(c) The student concludes that the spring shows elastic behaviour.

Explain what is meant by the term **elastic behaviour**.

(2)

(Total for Question 9 = 10 marks)