

# Hooke's Law Past Paper Questions

## Jan 2002 to Jan 2009

[ Note there are more Hooke's Law related questions under Young's Modulus]

- 3 (a) State Hooke's law.

**Q3 Jan 2009**

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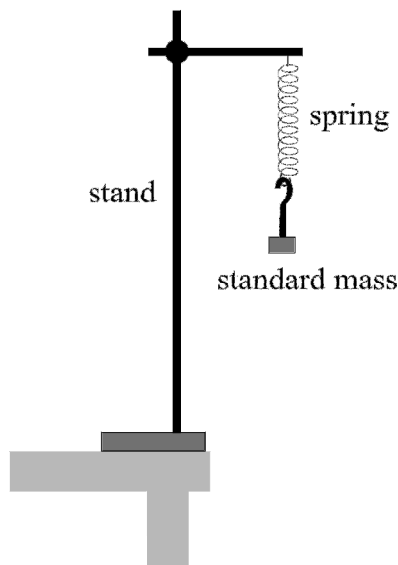
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*(2 marks)*

- 3 (b) A student is asked to measure the mass of a rock sample using a steel spring, standard masses and a metre rule. She measured the unstretched length of the spring and then set up the arrangement shown in **Figure 2**.

**Figure 2**



- 3 (b) (i) Describe how you would use this arrangement to measure the mass of the rock sample. State the measurements you would make and explain how you would use the measurements to find the mass of the rock sample.  
The quality of your written communication will be assessed in this question.

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*(6 marks)*

3 (b) (ii) State and explain **one** modification you could make to the arrangement in **Figure 2** to make it more stable.

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*(2 marks)*