

1)

(a)	the force (needed to stretch a spring is directly) is proportional to the extension (of the spring from its natural length) or equation with all terms defined ✓ up to the limit of proportionality ✓	2
(b) (i)  QWC	descriptor	mark range
good - excellent	The candidate provides a comprehensive and coherent description which includes all the necessary measurements in a logical order. The description should show awareness of the need to use a range of standard masses. In addition, the use of the measurements is explained clearly, including an outline of a graphical method to find the mass of the rock sample, or calculation using two or more standard masses and averaging. For 6 marks there must be a description of how to make accurate measurements.	5 - 6
modest - adequate	The candidate's description includes the necessary measurements using one standard mass as well as the rock sample. The description may not be presented in a logical order and they show little consideration in relation to making the measurements accurately. A clear explanation is provided of how to find the mass of the rock sample from their measurements, including correct use of Hooke's law through calculations or inadequate graphical method.	3 - 4
poor - limited	The candidate knows the necessary measurements to be made using a standard mass and the rock sample. The explanation of how to find the mass of the rock sample may be sketchy.  The explanations expected in a competent answer should include a coherent account of the following measurements and their use <b>measurements</b> (use a metre rule to) measure the length of the spring ✓ when it supports a standard mass (or known) mass ( $m$ ) and when it supports the rock sample repeat for different (standard) masses accuracy – use a set square or other suitable method to measure the position of the lower end of the spring against the (vertical) mm rule or method to reduce parallax <b>use of measurements</b> either plot graph of mass against length (or extension) ✓ read off mass corresponding to length (or extension) due to the sample ✓ or the extension of the spring = length – unstretched length ✓ mass of rock sample = $\frac{\text{extension of spring supporting rock sample}}{\text{extension of spring supporting known mass}} \times M$ ✓	1 – 2

# June 2013 Phya2 Mark Scheme

**M Lipman**



**June 2013 Phya2 Mark Scheme:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **June 2013 Phya2 Mark Scheme**

In a global inundated with monitors and the cacophony of fast conversation, the profound power and psychological resonance of verbal art usually disappear into obscurity, eclipsed by the constant assault of noise and distractions. However, set within the musical pages of **June 2013 Phya2 Mark Scheme**, a captivating perform of literary brilliance that pulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, that exciting opus guides visitors on a psychological odyssey, delicately exposing the latent possible and profound impact embedded within the complex internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect their captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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