

Hooks law Answers

- 1)
- (a) (i) extension clearly marked on Fig. 2.1 B1
 - (ii) (vertical) rule drawn on Fig. 2.1 B1
 - (b) (distance to) intercept on length axis clearly indicated B1
 - (c) newton **OR** N B1
- 2) A [Total: 4]
- 3)
- (i) limit of proportionality B1
 - (ii) Hooke's law B1
- 4)
- (a) increase/change/difference in length **OR** new length – original length B1
OR amount/length/distance it stretches
 - (b) (i) 1. 2 seen **OR** used C1
 - 11(.0)(cm) A1
 - 2. 0.8(cm) B1
 - (ii) $W = m \times g$ in words, symbols or numbers C1
OR correct conversion used, e.g. 1 kg = 10 N
200g/0.2kg A1
- [Total: 6]
- 5)
- (a) (take) values off rule C1
 - of X and Y C1
 - subtract X from Y A1
 - (b) line between X and top RH corner (accept straight or curved) B1
- [Total: 4]