

Teacher notes

Additional physics

1. (a) Total momentum before = total momentum after (1 mark)
 $0 = 2 \text{ kg} \times v \text{ m/s} + 0.0005 \text{ kg} \times 100 \text{ m/s}$ (1 mark)
 $0 = 2v \text{ kg m/s} + 0.05 \text{ kg m/s}$
 $v = -0.05/2 \text{ m/s}$
 $v = -0.025 \text{ m/s}$ (sign not essential for the mark) (1 mark)
- (b) Change in momentum = force $\times$ time taken for the change. (1 mark)
 If the force is applied for a longer time the gain in momentum is greater. (1 mark)
 so the velocity of the ball is greater. (1 mark)
[HT only]
2. (a) There is a drag force acting upwards on the ball. (1 mark)
 The drag force increases as the speed increases. (1 mark)
 Eventually drag force is equal to the weight (resultant force = zero). (1 mark)
- (b) e.g. Eye at level of the ball. (1 mark)
 Take time as lower surface of the ball passes the mark each time. (1 mark)
 Repeat the test. (2 marks)
- (c) Straight line, showing initial acceleration. (1 mark)
 Line curves. (1 mark)
 Horizontal line to show terminal velocity. (1 mark)
3. (a) Negative electrons (1 mark)
 stuck into a lump of positive matter. (1 mark)
- (b) First explanation: Most of the atom is empty space. (1 mark)
 Second explanation: The nucleus has a positive charge (1 mark)
 and a large mass. (1 mark)
[HT only]
4. (a) 5 kg is a mass. (1 mark)
 Weight is measured in newtons. (1 mark)
- (b) Work done = force $\times$ distance moved in the direction of the force (1 mark)
 $\text{Work done} = 30 \text{ N} \times 2 \text{ m}$ (1 mark)
 $\text{Work done} = 60$ (1 mark)
 Units of Nm or joules (1 mark)
- (c) kinetic energy = $\frac{1}{2} \times \text{mass} \times \text{velocity}^2$ (1 mark)
 kinetic energy = $\frac{1}{2} \times 70 \text{ kg} \times (5 \text{ m/s})^2$ (1 mark)
 kinetic energy = 875 J (2 marks)
[HT only]

Nelson Thornes Aqa Gcse Additional Physics Answer

Hussin A.Rothana



Nelson Thornes Aqa Gcse Additional Physics Answer:

Understand Physics: Teach Yourself Jim Breithaupt, 2010-02-26 Brilliant book well written and easy to follow along with Reader review Highly recommended a handy reference guide Reader review Essential for those wishing to understand long forgotten science classes Reader review All you need for a clear understanding of physics Physics does not have to be daunting This book complete with practice questions and answers forms a course which will take you from beginner or intermediate level to having a confident grasp of physics The book includes simple step by step explanations to help you grasp new topics or those that have previously confused you practice questions throughout to help you embed your learning and improve your confidence and end of chapter summaries to help you remember the key points you've learnt all in one great value book so you don't need any separate workbooks or coursebooks Chapters include Starting physics motion forces in action thermal physics engines and thermodynamics electricity the nature of light materials and molecules quantum theory and relativity the structure of matter nuclear energy space and the universe and the frontiers of physics ABOUT THE SERIES The Complete Introduction series from Teach Yourself is the ultimate one stop guide for anyone wanting a comprehensive and accessible entry point into subjects as diverse as philosophy mathematics psychology economics and practical electronics Loved by students and perfect for general readers who simply want to learn more about the world around them these books are your first choice for discovering something new AQA Modular Science for GCSE David G. Applin, Jim

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