

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

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