

TOPIC 5 FURTHER MECHANICS

5A Further momentum

Question number	Answer	Additional guidance	Mark
1	B	Note that while D can be true in some circumstances, it is not true if the vehicles' speeds were different initially.	(1)

(Total for Question 1 = 1 mark)

Question number	Answer	Additional guidance	Mark
2(a)	$250 \times 2.4 = 600$ (1) kg m s^{-1} (1)	Do not allow kg m/s.	(2)
2(b)	Momentum decrease (1) Change in momentum of probe = (-)change in momentum of gas (in opposite direction) (1) Gas momentum change is 'forwards' so probe change is 'backwards'. (1)	An answer in terms of Newton's third law should be credited, provided students relate it to momentum and velocity. Allow sum of momentum <u>change</u> = 0 Do not allow <u>total</u> momentum = 0	(3)
2(c)	$Ft = \Delta p$ $F = \frac{600}{20}$ (1) $F = 30 \text{ N}$ (1)	Allow error carried forward from 2(a).	(2)
2(d)	Average mass of probe will be lower. (1) As momentum change is the same, $\Delta v = \frac{\Delta p}{m}$ will be greater. (1)		(2)
2(e)(i)	Momentum change of probe would double. (1) Momentum change of gas = Δmv (for the same mass): double v , Δp will double. (1)		(2)

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Table of Contents January 2015 Ial Physics Unit 2 Mark Scheme

1. Understanding the eBook January 2015 Ial Physics Unit 2 Mark Scheme
 - The Rise of Digital Reading January 2015 Ial Physics Unit 2 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying January 2015 Ial Physics Unit 2 Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an January 2015 Ial Physics Unit 2 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from January 2015 Ial Physics Unit 2 Mark Scheme
 - Personalized Recommendations
 - January 2015 Ial Physics Unit 2 Mark Scheme User Reviews and Ratings
 - January 2015 Ial Physics Unit 2 Mark Scheme and Bestseller Lists
5. Accessing January 2015 Ial Physics Unit 2 Mark Scheme Free and Paid eBooks
 - January 2015 Ial Physics Unit 2 Mark Scheme Public Domain eBooks
 - January 2015 Ial Physics Unit 2 Mark Scheme eBook Subscription Services
 - January 2015 Ial Physics Unit 2 Mark Scheme Budget-Friendly Options
6. Navigating January 2015 Ial Physics Unit 2 Mark Scheme eBook Formats

- ePub, PDF, MOBI, and More
- January 2015 Ial Physics Unit 2 Mark Scheme Compatibility with Devices
- January 2015 Ial Physics Unit 2 Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of January 2015 Ial Physics Unit 2 Mark Scheme
 - Highlighting and Note-Taking January 2015 Ial Physics Unit 2 Mark Scheme
 - Interactive Elements January 2015 Ial Physics Unit 2 Mark Scheme
- 8. Staying Engaged with January 2015 Ial Physics Unit 2 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers January 2015 Ial Physics Unit 2 Mark Scheme
- 9. Balancing eBooks and Physical Books January 2015 Ial Physics Unit 2 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection January 2015 Ial Physics Unit 2 Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine January 2015 Ial Physics Unit 2 Mark Scheme
 - Setting Reading Goals January 2015 Ial Physics Unit 2 Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of January 2015 Ial Physics Unit 2 Mark Scheme
 - Fact-Checking eBook Content of January 2015 Ial Physics Unit 2 Mark Scheme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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