

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) $v_{\text{esc}} = \sqrt{2gR}$ $= (2 \times 1.62 \times 1740 \times 10^3)^{1/2}$ $= 2400 \text{ m s}^{-1}$ (2370 m s ⁻¹ to 3 sig figs)	1 1	
(b) (i) Mean kinetic energy $= \frac{3}{2}kT$ $= 1.5 \times 1.38 \times 10^{-23} \times 400$ $= 8.3 \times 10^{-21} \text{ J}$	1 1	
(ii) Mass of an oxygen molecule $m = \text{molar mass}/N_A$ $= \frac{0.032}{6.02 \times 10^{23}} \text{ kg}$ Rearranging $\frac{1}{2}mc_{\text{rms}}^2 = 8.3 \times 10^{-21} \text{ J} \dots$ gives $c_{\text{rms}}^2 = \frac{2 \times 8.3 \times 10^{-21}}{0.032/6.02 \times 10^{23}}$ $= 560 \text{ m s}^{-1}$	1 1	
(iii) Gas molecules have a range of speeds (or kinetic energies) • The escape speed from the lunar surface is about 4 × the rms speed of the gas molecules • Some gas molecules would have sufficient kinetic energy (or speed) to escape from the lunar surface • Each day more gas molecules would escape • As they would gain kinetic energy from the hot surface	1 any 2	
(c) (i) • Absorption lines are due to the absorption of light of certain wavelengths. • The lines were observed only when the planet passed across the face of the star • If the star had caused the absorption lines, they would have been present all the time (∴ the planet must have absorbed light at these wavelengths)	6 marks max	

Aqa A2 Physics Exam Style Questions Answers Chapter 9

Jim Breithaupt



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Table of Contents Aqa A2 Physics Exam Style Questions Answers Chapter 9

1. Understanding the eBook Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - The Rise of Digital Reading Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - 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 Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Personalized Recommendations
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 User Reviews and Ratings
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 and Bestseller Lists
5. Accessing Aqa A2 Physics Exam Style Questions Answers Chapter 9 Free and Paid eBooks
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 Public Domain eBooks
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 eBook Subscription Services
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 Budget-Friendly Options
6. Navigating Aqa A2 Physics Exam Style Questions Answers Chapter 9 eBook Formats

- ePub, PDF, MOBI, and More
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 Compatibility with Devices
 - Aqa A2 Physics Exam Style Questions Answers Chapter 9 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Highlighting and Note-Taking Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Interactive Elements Aqa A2 Physics Exam Style Questions Answers Chapter 9
 8. Staying Engaged with Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa A2 Physics Exam Style Questions Answers Chapter 9
 9. Balancing eBooks and Physical Books Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa A2 Physics Exam Style Questions Answers Chapter 9
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Setting Reading Goals Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - Fact-Checking eBook Content of Aqa A2 Physics Exam Style Questions Answers Chapter 9
 - 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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