

## Answers to examination-style questions

| Answers                                                                                                                                                                                                                                                                                                                                                                                                                                      | Marks          | Examiner's tips |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
| 1 (a) $v_{\text{esc}} = \sqrt{2gR}$<br>$= (2 \times 1.62 \times 1740 \times 10^3)^{1/2}$<br>$= 2400 \text{ m s}^{-1}$<br>(2370 m s <sup>-1</sup> to 3 sig figs)                                                                                                                                                                                                                                                                              | 1<br>1         |                 |
| (b) (i) Mean kinetic energy $= \frac{3}{2}kT$<br>$= 1.5 \times 1.38 \times 10^{-23} \times 400$<br>$= 8.3 \times 10^{-21} \text{ J}$                                                                                                                                                                                                                                                                                                         | 1<br>1         |                 |
| (ii) Mass of an oxygen molecule $m = \text{molar mass}/N_A$<br>$= \frac{0.032}{6.02 \times 10^{23}} \text{ kg}$<br>Rearranging $\frac{1}{2}mc_{\text{rms}}^2 = 8.3 \times 10^{-21} \text{ J} \dots$<br>gives $c_{\text{rms}}^2 = \frac{2 \times 8.3 \times 10^{-21}}{0.032/6.02 \times 10^{23}}$<br>$= 560 \text{ m s}^{-1}$                                                                                                                 | 1<br>1         |                 |
| (iii) Gas molecules have a range of speeds (or kinetic energies)<br><ul style="list-style-type: none"> <li>The escape speed from the lunar surface is about 4 × the rms speed of the gas molecules</li> <li>Some gas molecules would have sufficient kinetic energy (or speed) to escape from the lunar surface</li> <li>Each day more gas molecules would escape</li> <li>As they would gain kinetic energy from the hot surface</li> </ul> | 1<br>any 2     |                 |
| (c) (i) <ul style="list-style-type: none"> <li>Absorption lines are due to the absorption of light of certain wavelengths.</li> <li>The lines were observed only when the planet passed across the face of the star</li> <li>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)</li> </ul>                                                  | 6 marks<br>max |                 |

# Aqa Exam Style Questions Answers Physics A2 Chapter 4

**Rachel Sandford**



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## **Table of Contents Aqa Exam Style Questions Answers Physics A2 Chapter 4**

1. Understanding the eBook Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - The Rise of Digital Reading Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - 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 Exam Style Questions Answers Physics A2 Chapter 4
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Personalized Recommendations
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 User Reviews and Ratings
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 and Bestseller Lists

5. Accessing Aqa Exam Style Questions Answers Physics A2 Chapter 4 Free and Paid eBooks
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 Public Domain eBooks
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 eBook Subscription Services
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 Budget-Friendly Options
6. Navigating Aqa Exam Style Questions Answers Physics A2 Chapter 4 eBook Formats
  - ePub, PDF, MOBI, and More
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 Compatibility with Devices
  - Aqa Exam Style Questions Answers Physics A2 Chapter 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Highlighting and Note-Taking Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Interactive Elements Aqa Exam Style Questions Answers Physics A2 Chapter 4
8. Staying Engaged with Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aqa Exam Style Questions Answers Physics A2 Chapter 4
9. Balancing eBooks and Physical Books Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aqa Exam Style Questions Answers Physics A2 Chapter 4
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Setting Reading Goals Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - Fact-Checking eBook Content of Aqa Exam Style Questions Answers Physics A2 Chapter 4
  - 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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