

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 11

Jim Breithaupt



Aqa A2 Physics Exam Style Questions Answers Chapter 11:

Oxford International AQA Examinations: International A Level Physics Jim Breithaupt, 2016-10-13 The only textbook that completely covers the Oxford AQA International AS A Level Physics specification 9630 for first teaching in September 2016 Written by experienced authors the engaging international approach ensures a thorough understanding of complex concepts and provides exam focused practice to build assessment confidence Help students develop the scientific mathematical and practical skills and knowledge needed for Oxford AQA assessment success and the step up to university Ensure students understand the bigger picture supporting their progression to further study with synoptic links and a focus on how scientists and engineers apply their knowledge in real life *A-Level Physics for AQA: Year 1 & 2 Student Book*, 2020-09-30 This unbeatable CGP Student Book covers all of the core content for both years of AQA A Level Physics plus the optional topics 9 12 It s brimming with in depth accessible notes clear diagrams photographs tips and worked examples Throughout the book there are lots of practice questions and end of section summaries with exam style questions answers at the back There s detailed guidance on Maths Skills and Practical Skills as well as indispensable advice for success in the final exams If you d prefer Year 1 9781782943235 Year 2 9781782943280 in separate books CGP has them too And for more detailed coverage of the mathematical elements of A Level Physics try our Essential Maths Skills book 9781782944713 **AQA A Level Physics** Dr Asad Altameemy, 2020-01-07 This book is aimed specifically to cover the requirements of the AQA A level A2 Physics This book is a comprehensive study aid which includes notes and fully answered questions It will help you check and consolidate your learning Much of the content of this book assumes an understanding of A level core physics concepts At the end of each chapter I have included a range of exam style questions I also include full answers to these questions at the end of the book Practice makes permanent: 450+ questions for AQA A-level Physics Alessio Bernardelli, James Irvine, 2020-11-30 Practise and prepare for AQA A level Physics with hundreds of topic based questions and one complete set of exam practice papers designed to strengthen knowledge and prepare students for the exams This extensive practice book raises students performance by providing shed loads of practice following the SLOP learning approach that s recommended by teachers Consolidate knowledge and understanding with practice questions for every topic and type of question including multiple choice multi step calculations and extended response questions Develop the mathematical literacy and practical skills required for the exams each question indicates in the margin which skills are being tested Confidently approach the exam having completed one set of exam style practice papers that replicate the types wording and structure of the questions students will face Identify topics and skills for revision using the page references in the margin to refer back to the specification and accompanying Hodder Education Student Books for remediation Easily check answers with fully worked solutions and mark schemes provided in the book Revise A2 Physics for AQA A Harvey Cole, 2005-04 We have had lots of students contacting us to say how useful they ve found this series of revision guides So why have they found them so valuable

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AQA A-level Year 2 Physics Student Guide: Sections 6-8 Ian Lovat, 2016-05-02 Exam Board AQA Level A level Subject Physics First teaching September 2016 First Exam June 2017 Written by experienced teacher Ian Lovat this Student Guide for Physics Written by experienced teacher Pauline Lowrie this Student Guide for Biology Helps students identify what they need to know with a concise summary of the topics examined in the AS and A level specifications Consolidates understanding with tips and knowledge check questions Provides opportunities

to improve exam technique with sample answers to exam style questions Develops independent learning and research skills Provides the content for generating individual revision notes *AQA A-level Year 2 Physics Student Guide: Sections 9 and 12* Jeremy Pollard, 2017-02-06 Exam Board AQA Level A level Subject Physics First Teaching September 2016 First Exam June 2017 Written by experienced author Jeremy Pollard this Student Guide for Physics Identifies the key content you need to know with a concise summary of topics examined in the A level specifications Enables you to measure your understanding with exam tips and knowledge check questions with answers at the end of the guide Helps you to improve your exam technique with sample answers to exam style questions Develops your independent learning skills with content you can use for further study and research *Oxford Revise: AQA a Level Physics Revision and Exam Practice* Alom Shaha, Helen Reynolds, Catherine Jones, Carol Davenport, 2020 Oxford Revise is a fresh evidence based approach to studying created by the teacher trusted Oxford Science author team and informed by the latest research into the best ways to make learning stick it organises content in the most effective way for successful learning ideal for independent study throughout the school year and in the lead up to exams Based on principles of cognitive science the simple three step Knowledge Retrieval and Practice approach helps students to organise information and commit it to long term memory improve retention and recall and apply knowledge successfully with extensive exam style practice It s everything students need to study effectively and fully prepare for their exams in one convenient book Each paperback purchased includes free access to an ebook version of the title Details on how to access it are printed inside the book Answers will be available online at oxfordrevise.com/scienceanswers

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