
AQA a level physics paper 1 100% SOLUTIONS REVISED 2023//2024

What is meant by work function (2) - ANSWER Minimum energy required by an electron to escape from (1) a metal surface (1)

What is meant by ionisation energy? (2) - ANSWER Minimum energy required to remove an electron from an atom (1) from the ground state (1)

Why do emitted electrons have a kinetic energy that varies up to a maximum value? (4)
- ANSWER Energy of a photon is fixed/constant (1)
Energy is required for electrons to overcome work function ϕ (1)
Electrons deeper into/below the surface of the metal require more energy to overcome work function and therefore have less KE (1)
Maximum KE = Energy of photon - work function ϕ (1)

Explain how (bright ring) diagram is evidence of the wave-particle duality of electrons? - ANSWER Diffraction pattern maxima/minima (bright and dark areas) (1)
Diffraction is a property of waves- proves wave-behaviour of electrons (1)

What is meant by the ground state? - ANSWER The lowest energy state of an atom

Explain the difference between excitation and ionisation (2) - ANSWER An electron receives a discrete amount of energy for BOTH (1)
Excitation promotes an electron to a higher energy level
Ionisation is when an electron receives enough energy to leave the atom

Aqa Physics Unit 1 January 2013 Paper

Judd E. Hollander



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A Level Psychology: The Complete Companions for AQA Psychology A Level: Year 1 and AS Student Book, 6th Edition Mike Cardwell, Adelaide McLaughlin, 2025-09-11 Exam Board AQA Level A Level Year 1 AS Subject Psychology First teaching September 2025 First exams June 2026 AS June 2027 A Level The Complete Companions for AQA A Level Year 1 and AS 6th Edition provides students with comprehensive thorough and exceptionally clear coverage of the A Level specification Written by subject experts this book helps turn understanding of psychology into even better examination performance Cognitive science principles are embedded throughout to aid understanding and help students make links across the content Each topic includes comprehensive exam support with exam style questions sample answers with detailed feedback and topic summaries for effective revision

Success with STEM Sue Howarth, Linda Scott, 2014-11-13 Success with STEM is an essential resource packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom Illustrated with examples of successful projects in real schools this friendly inspiring book explores Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting up and enhancing your own STEM club Getting involved in STEM competitions fairs and festivals Promoting STEM careers and tackling stereotypes Health safety and legal issues Examples of international projects An wide ranging list of project and activity titles Enriched by the authors extensive experience and work with schools Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life long interest in STEM learning in their students The advice and guidance will be invaluable for all teachers subject leaders trainee teachers and NQTs

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NBS Special Publication , 1968

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Publications United States. National Bureau of Standards, 1977

Index of Conference Proceedings British Library. Document Supply Centre, 1994

Soviet Journal of Plasma Physics , 1992

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Table of Contents Aqa Physics Unit 1 January 2013 Paper

1. Understanding the eBook Aqa Physics Unit 1 January 2013 Paper
 - The Rise of Digital Reading Aqa Physics Unit 1 January 2013 Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Physics Unit 1 January 2013 Paper
 - 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 Physics Unit 1 January 2013 Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Physics Unit 1 January 2013 Paper
 - Personalized Recommendations
 - Aqa Physics Unit 1 January 2013 Paper User Reviews and Ratings
 - Aqa Physics Unit 1 January 2013 Paper and Bestseller Lists
5. Accessing Aqa Physics Unit 1 January 2013 Paper Free and Paid eBooks
 - Aqa Physics Unit 1 January 2013 Paper Public Domain eBooks
 - Aqa Physics Unit 1 January 2013 Paper eBook Subscription Services
 - Aqa Physics Unit 1 January 2013 Paper Budget-Friendly Options

6. Navigating Aqa Physics Unit 1 January 2013 Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa Physics Unit 1 January 2013 Paper Compatibility with Devices
 - Aqa Physics Unit 1 January 2013 Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa Physics Unit 1 January 2013 Paper
 - Highlighting and Note-Taking Aqa Physics Unit 1 January 2013 Paper
 - Interactive Elements Aqa Physics Unit 1 January 2013 Paper
8. Staying Engaged with Aqa Physics Unit 1 January 2013 Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa Physics Unit 1 January 2013 Paper
9. Balancing eBooks and Physical Books Aqa Physics Unit 1 January 2013 Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa Physics Unit 1 January 2013 Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Aqa Physics Unit 1 January 2013 Paper
 - Setting Reading Goals Aqa Physics Unit 1 January 2013 Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aqa Physics Unit 1 January 2013 Paper
 - Fact-Checking eBook Content of Aqa Physics Unit 1 January 2013 Paper
 - 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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