
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 January 2014

Ali Pirzadeh



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Practical Theorising in Teacher Education Katharine Burn,Trevor Mutton,Ian Thompson,2022-07-28 This insightful collection offers a timely contribution to the body of research on practical theorising in teacher education Acknowledging the importance of experience and reflective practice in teaching this book simultaneously embraces the essential need for teachers at all career stages to engage effectively and critically with evidence from research Drawing together a range of perspectives from university based and school based teacher educators this book examines the challenges and critiques advanced when practical theorising was first proposed as well as recent tensions created by the performative culture that now pervades education It illustrates the constant renegotiation and renewal necessary to sustain such an approach to beginners learning investigating a range of tools developed by teacher educators to help beginning teachers navigate these demands Demonstrating the value of practical theorising and therefore promoting powerful professional learning for practitioners this book is essential for teachers at all career stages including trainee teachers and student teachers **AQA A Level Mathematics Year 1 (AS)** Sophie Goldie,Susan Whitehouse,Val Hanrahan,Cath Moore,Jean-Paul Muscat,2018-10-22 Exam Board AQA Level AS A level Subject Mathematics First Teaching September 2017 First Exam June 2018 AQA Approved Give students the confidence to identify connections between topics and apply their reasoning to mathematical problems so as to develop a deeper understanding of mathematical concepts and their applications with resources developed with subject specialists and MEI Mathematics in Education and Industry Prepare students for assessment with plenty of practice questions worked examples and skill focused exercises Help build connections between topics with points of interest and things to notice such as links to real world examples and noticing patterns in the mathematics Enhance understanding of problem solving proof and modelling with dedicated sections on these key areas Address the new statistics requirements with five dedicated statistics chapters and questions around the use of large data sets Supports the use of technology with activities based around the use of spreadsheets graphing software and graphing calculators Provide clear paths of progression that combine pure and applied maths into a coherent whole **Iran Revisited** Ali Pirzadeh,2016-04-20 This book examines Modern Iran through an interdisciplinary analysis of its cultural norms history and institutional environment The goal is to underline strengths and weaknesses of Iranian society as a whole and to illustrate less prescriptive explanations for the way Iran is seen through a lens of persistent collective conduct rather than erratic historical occurrences Throughout its history Iran has been subject to many studies all of which have diagnosed the country s problem and prescribed solutions based on certain theoretical grounds This book intends to look inward seeking cultural explanations for Iran s perpetual inability to improve its society The theme in this book is based on the eloquent words of Nasir Khusrau a great Iranian poet *az mast ki bar mast* The words are from a poem describing a self adoring eagle that sees its life abruptly ended by an arrow winged with its own feathers the bird is doomed by its own vanity The closest interpretation of this idiom

in Western Christian culture is you reap what you sow which conveys a similar message that underlines one's responsibility in the sense that sooner or later we must face the choices we make This would enable us to confront and live up to what Iran's history and culture have taught us *The Learning Rainforest: Great Teaching in Real Classrooms* Tom

Sherrington, 2017-10-23 The Learning Rainforest is an attempt to capture various different elements of our understanding and experience of teaching It is a celebration of great teaching the joy of it and the intellectual and personal rewards that teaching brings It is aimed at teachers of all kinds busy people working in complex environments with little time to spare The core of the book is a guide to making teaching both effective and manageable it provides an accessible summary of key contemporary evidence based ideas about teaching and learning and the debates that all teachers should be engaging in It's a book packed with strategies for making great teaching attainable in the context of real schools The Learning Rainforest metaphor is an attempt to capture various different elements of our understanding and experience of teaching Tom's ideas about what constitutes great teaching are drawn from his experiences as a teacher and a school leader over the last 30 years alongside everything he has read and all the debates he's engaged with during that time An underlying theme of this book is that a career in teaching is a process of continual personal development and professional learning as is engaging in fundamental debates rage on about the kind of education we value As you meet each new class and move from school to school your perspectives shift your sense of what seems to work adjusts to each new context In writing this book Tom is trying to capture some of the journey he's been on He has learned that it is ok to change your mind More than that sometimes it is simply necessary to get your head out of the sand to change direction to admit your mistakes **Exam**

Literacy Jake Hunton, 2018-08-13 In Exam Literacy A guide to doing what works and not what doesn't to better prepare students for exams Jake Hunton focuses on the latest cognitive research into revision techniques and delivers proven strategies which actually work Foreword by Professor John Dunlosky Read highlight reread repeat if such a revision cycle sounds all too wearily familiar you and your students need a better route to exam success And in light of the recent decision to make all subjects at GCSE linear so that students will be tested in one off sittings it will be even more important that students are well equipped to acquire and recall key content ahead of their exams In this wide ranging guide to effective exam preparation Jake Hunton casts a careful eye over a wide range of research into revision techniques and details the strategies which have been proven to deliver the best results With plenty of practical suggestions and subject specific examples Exam Literacy provides teachers with user friendly advice on how they can make the content they cover stick and shares up to date evidence based information on The nature of learning and the various types of memory How to improve students retention of knowledge and recall of content Why popular revision techniques such as rereading highlighting and summarising may not be as effective as you think How revision strategies that have been identified as being more effective such as interleaving elaborative interrogation self explanation and retrieval practice can be embedded into day to day

teaching How students can be encouraged to make use of these winning strategies when revising independently 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 Essentials of Flow Assurance Solids in Oil and Gas Operations Abdullah Hussein, 2022-10-19 Flow assurance solids deposition is one of the main challenges in oil and gas production operations with millions of dollars spent annually on their mitigation Essentials of Flow Assurance Solids in Oil and Gas Operations works as an all inclusive reference for engineers and researchers covering all the different types of solids that are commonly encountered in oil and gas fields Structured to flow through real world operations the reference branches through each solid deposit problem where the root causes are as well as modeling monitoring characterization and management strategies all comprehensively reviewed in the light of contemporary research breakthroughs Backed by several field case studies Essentials of Flow Assurance Solids in Oil and Gas Operations gives petroleum and reservoir engineers a resource to correlate between the theoretical fundamentals and field practical applications allowing for sustainable and optimal operations Provides the main operations of oil and gas fields the characteristics of produced fluids and the main flow assurance challenges Furnishes the basic principles of deposits formation and mitigation starting with a full investigation of the problems then mechanisms causes predictions modelling and sample analysis followed by management Distinctively discusses the operational and environmental implications of flow assurance solids and their management using chemical and nonchemical methods Teaches engineers through impactful visuals and data sets included in every chapter

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