
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

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My Revision Notes: AQA GCSE (9-1) Geography Simon Ross, Rebecca Blackshaw, 2017-10-30 Exam Board AQA Level GCSE Subject Geography First Teaching September 2016 First Exam Summer 2018 Target success in AQA GCSE 9 1 Geography with this proven formula for effective structured revision key content coverage is combined with exam style tasks and practical tips to create a revision guide that students can rely on to review strengthen and test their knowledge With My Revision Notes every student can Plan and manage a successful revision programme using the topic by topic planner Enjoy an active approach to revision with clear topic coverage and related Now Test Yourself tasks and practical revision activities Improve exam technique through exam tips and formal exam style questions Monitor their knowledge and progress using the answers provided for each activity and exam style question Develop geographical understanding and enhance exam responses with case study material and event place examples

2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee, 2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

How World Events Are Changing Education , 2022-02-07 Listen to the podcast Education was established to create employees for 19th and 20th century manufacturing models The 21st century requires a rethink Change is happening fast with jobs not guaranteed as robots are taking over routines We must prepare students for uncertainty higher level employment helping them think and communicate instead of retain and recall facts for passing exams Some curricula is either irrelevant for today or gained at the press of a button Listening and literate talk narratives for collaboratively solving real problems should be the focus not facts forgotten after tests The book explores this important debate Contributors are Daryle Abrahams Nigel Adams Peter Chatterton Stefano Cobello Joanna Ebner Pierre Frath Irene Glendinning Susan James Riccarda Matteucci Gloria McGregor Elena Milli Elizabeth Negus Juan Eduardo Romero Rosemary Sage and Emma Webster

Doing Theory on Education Andy Cramp, Julian McDougall, 2018-08-06 Doing Theory on Education explores key debates using examples from contemporary media and popular culture to guide Education Studies students through the perennial debates that surround teaching and learning Aimed at undergraduates postgraduates and teachers in education settings it uses over seventy popular culture texts from television music videogames fiction film architecture social media the press and art to illuminate important issues and make the critical theory that underpins educational debates more accessible and engaging Each chapter also offers essential background knowledge and historical perspective and includes reflective activities to help you develop a critical approach enabling you to argue your own point of view with confidence and consider where issues may progress to in the future It examines core issues such as Class and educational choice Learning styles Testing and assessment What counts as knowledge Leadership and professionalism Education students and those in education settings often struggle to see the value of theory Doing Theory on Education Using Popular Culture to Explore Key Debates is an accessible text designed for educationalists who want to put theory to work as an active strategy for influencing thinking and practice

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2012

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