



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE
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MATHEMATICS

0580/42

Paper 4 (Extended)

May/June 2014

2 hours 30 minutes

Candidates answer on the Question Paper.

Additional Materials:

Electronic calculator

Geometrical instruments

Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

The total of the marks for this paper is 130.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of 16 printed pages.



2014 June Edexcel Papers

**Christine Counsell, Katharine
Burn, Arthur Chapman**



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Edexcel Economics A Student Guide: Theme 2 The UK economy - performance and policies Rachel Cole, 2015-07-24 Exam Board Edexcel Level AS A level Subject Economics Reinforce students understanding throughout the course Clear topic summaries with sample questions and answers will help to improve exam technique to achieve higher grades Written by experienced author Rachel Cole this Student Guide for Economics focuses on the key topics of measures of economic performance economic growth and macroeconomic objectives and politics The first section Content Guidance summarises content needed for the exams with knowledge check questions throughout The second section Questions and Answers provides samples of different questions and student answers with examples of how many marks are available for each question Students can Identify key content for the exams with our concise summary of topics Find out what examiners are looking for with our Questions and Answers section Test their knowledge with rapid fire questions and answers Avoid common pitfalls with clear definitions and exam tips throughout Reinforce their learning with bullet list summaries at the end of each section

Pearson Edexcel International GCSE (9-1) History: Paper 2 Investigation and Breadth Studies Rob Bircher, Kirsty Taylor, Jennifer McCullough, Michael Scott-Baumann, 2021-09-06 Exam board Pearson Edexcel Level International GCSE 9 1 Subject History First teaching September 2017 First exams Summer 2019 Endorsed for Pearson Edexcel qualifications Follow the tried and tested methods of bestselling author Ben Walsh This book builds the skills required for exam success helps students to remember all the content and makes History really interesting The authors have listened to feedback from teachers and students about the challenging aspects of the specification to ensure that they deliver the support you need You can rely on this textbook to Straightforward language manageable chunks of text and plenty of bullet points guide you through the content which is covered in the amount of depth that students need Ben Walsh is known for selecting memorable sources and extracts that work alongside the narrative to draw out the big concepts within each topic The features in the book are designed to consolidate students knowledge of the key points from Focus boxes and regular Knowledge check questions to end of chapter summaries Activities throughout the chapters and larger Focus tasks teach students how to select organise and use their knowledge to explain analyse evaluate and make judgements Clear explanations of the exam requirements analysis of what a good answer might look like and handy tips help students to feel confident and prepared This book covers the following units Historical investigations Breadth studies

The Art of Uncertainty David Spiegelhalter, 2025-03-04 Named a Best Book of the Year by Forbes and The Economist From our greatest living statistical communicator Tim Harford comes an invaluable data driven guide for understanding and learning to embrace risk and uncertainty in our daily lives How dangerous is our diet How much of sports falls into the realm of luck

When authorities categorize a given event as highly likely how likely is that really Whether we re trying to decide if the benefits of a new medication are worth the chance of side effects or if artificial intelligence truly threatens humanity our lives are riddled with uncertainties both everyday and existential yet it can be difficult to know how to properly weigh all those unknowns Luckily for us renowned statistician David Spiegelhalter has spent his career dissecting data to resolve the apparently random and decode the many decisions we face with imperfect information In *The Art of Uncertainty* he shows how we can become better at dealing with what we don t know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what s likely to happen in the future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don t or simply cannot know

GCSE Religious Studies for Edexcel A (9-1): Catholic Christianity with Islam and Judaism Revision Guide Andy Lewis, Waqar Ahmedi, 2018-03-22 This Edexcel GCSE Catholic Christianity with Islam and Judaism Revision Guide covers exactly what your students require with a structured approach to revising for the new 91 exams RECAP key content presented in simple visual styles to make content memorable APPLY knowledge with targeted revision activities to practise evaluative skills needed for the exams REVIEW through practising exam questions and reviewing answers to pinpoint any areas of weakness in knowledge or exam skills Clearly identify areas to target next Perfect for use alongside the Student Book or as a stand alone resource for independent revision This Revision Guide covers the whole course for students of Catholic Christianity Paper 1 including a choice of either Islam or Judaism as a second religion Paper 2 and a choice of either Philosophy and Ethics or St Mark s Gospel Paper 3 4 With all the essential content condensed and made memorable and plenty of exam practice tips and annotated sample answers

A Philosophical Inquiry into Subject English and Creative Writing Oli Belas, 2022-11-18 While engaging with the current political educational climate of England this book offers a timely contribution to debates around questions of knowledge in relation to education and school level English by drawing together theories of individual and disciplinary knowledge The book provides a philosophical conception of knowledge as fundamentally embodied at the level of the individual and a matter of cultural form at the level of shared or common knowledge and an analysis of the implications of this for schooled English The research draws from various related fields including literary criticism philosophy of knowledge and of symbolic form and phenomenology The book rethinks general notions of knowledge and lays out the problems that exist within knowledge and

language systems in education especially secondary and university levels This highly relevant and informative book offers an insightful resource for academics researchers and post graduate students in the fields of education studies educational policy and politics philosophy of education and literature studies Edexcel A-level Economics A Student Guide: Theme 1 Introduction to markets and market failure Mark Gavin,2015-06-05 Exam Board Edexcel Level AS A level Subject Economics Reinforce students understanding throughout the course Clear topic summaries with sample questions and answers will help to improve exam technique to achieve higher grades Written by experienced author Mark Gavin this Student Guide for Economics focuses on the key topics of how markets work market failure and government intervention The first section Content Guidance summarises content needed for the exams with knowledge check questions throughout The second section Questions and Answers provides samples of different questions and student answers with examples of how many marks are available for each question Students can Identify key content for the exams with our concise summary of topics Find out what examiners are looking for with our Questions and Answers section Test their knowledge with rapid fire questions and answers Avoid common pitfalls with clear definitions and exam tips throughout Reinforce their learning with bullet list summaries at the end of each section MasterClass in History Education Christine Counsell,Katharine Burn,Arthur Chapman,2016-10-06 MasterClass in History Education draws on international research and practice to present effective and engaging approaches for history teachers who want to explore the ways in which reading research and reflection can support the development of history teaching and learning in the classroom At the heart of the book is a series of professional enquiries carried out by experienced history teachers working in a range of contexts Each history teacher addresses clear questions arising from their practice and together they illustrate various approaches to data collection data analysis and argument These history teachers also show how they drew on diverse scholarship in history and history education including many publications by other history teachers In eight further chapters other experts ranging from practitioner scholars to researchers in diverse fields such as history history education teacher education teacher research and curriculum theory reflect on the distinctive insights that these teachers offer and explore connections with their own fields The combination of perspectives and the depth of knowledge of the varied contributors reveal the importance of different kinds of relationship between theory and practice The links between classroom realities and research and the critical use of different kinds of text will support history teachers in developing their practice and professional voice

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