

**Monday 13 May 2013 – Afternoon**

**AS GCE MATHEMATICS**

**4721/01 Core Mathematics 1**

**QUESTION PAPER**

Model Solutions

Candidates answer on the Printed Answer Book.

**OCR supplied materials:**

- Printed Answer book 4721/01
- List of Formulae (MF1)

**Other materials required:**

None

**Duration: 1 hour 30 minutes**

You can do it !

# Ocr November 2013 Past Paper Maths Applications

**Val Hanrahan, Roger Porkess**



## **Ocr November 2013 Past Paper Maths Applications:**

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 **The Times Index**, 2013-06 Indexes the Times Sunday times and magazine Times literary

supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement *Additional Mathematics for Ocr* Val Hanrahan, Roger Porkess, 2004 Teach with confidence knowing your students will be fully prepared for their exams with this detailed textbook that is closely tailored to the specification and has been endorsed by OCR Endorsed by OCR for use with the OCR Additional Mathematics specification This level 3 qualification in Key Stage 4 enables students to study higher level mathematics without having to embark on their AS modules Accessible and concise written by experienced authors to guide and encourage your higher level students towards success Includes an introduction to each topic followed by worked examples with commentaries Provides plenty of practice with hundreds of questions Ideal for students considering maths at AS A level accelerating their progress and aiding their future choices Table of Contents 1 Algebra I review 2 Algebra II techniques 3 Algebra III polynomials 4 Algebra IV applications 5 Co ordinate geometry I 6 Co ordinate geometry II applications 7 Trigonometry I 8 Trigonometry II applications 9 Calculus I differentiation 10 Calculus II integration 11 Calculus III applications to kinematics Ocr Additional Mathematics Practice Book for the

Ocr Additional Mathematics Fsmq Val Hanrahan, 2013-02-01 Complete support for the bestselling textbook with hundreds of questions enabling students to practise and consolidate what they have learnt throughout the course This practice book Develops students skills and helps them prepare effectively for the exam with graduated questions including harder exam style questions Helps students to recall what they have learnt with Key Points at the start of each Practice Book chapter Builds students confidence and helps them tackle harder problems with access to short hints when needed Indicates which

formulae the students will need for each chapter of the book

**CONTENTS**

Section 1 Algebra 1 Algebra I review 2 Algebra II techniques 3 Algebra III polynomials 4 Algebra IV applications

Section 2 Co ordinate geometry 5 Co ordinate geometry I straight lines and circles 6 Co ordinate geometry II applications

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