



4111
03/2013

Surname
Other Names

Centre Number

Candidate Number
0



GCSE

4352/02

MATHEMATICS (UNITISED SCHEME)
UNIT 2: Non-Calculator Mathematics
HIGHER TIER

P.M. TUESDAY, 15 January 2013

$1\frac{1}{4}$ hours

**CALCULATORS ARE
NOT TO BE USED
FOR THIS PAPER**

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions in the spaces provided.

If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

Take mas 3-14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

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

You are reminded that assessment will take into account the quality of written communication (including mathematical communication) used in your answer to question 1.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1	7	
2	3	
3	4	
4	4	
5	4	
6	5	
7	7	
8	4	
9	6	
10	4	
11	4	
12	8	
13	5	
TOTAL MARK		



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John Rounce



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WJEC GCSE Maths Higher: Mastering Mathematics Revision Guide Keith Pledger, Joe Petran, Gareth Cole, 2022-02-28
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Know it All, Find it Fast for Youth Librarians and Teachers Christine Donnelly, 2012 A brand new version of the best selling enquiry desk reference text *Know it All Find it Fast* specifically designed for those working with children and young people in schools public libraries and at home Including an invaluable overview of the education system and the school curriculum as well as a comprehensive listing of useful resources by topic this A Z covers school subjects from science and maths to reading and literacy and more general themes such as children s health wellbeing and hobbies Each topic is broken down into useful sections that will help to guide your response Typical questions outline common queries such as Have you got any information about volcanoes Considerations provides useful hints and tips i e Geography now encompasses not only physical and human geography but also environmental geography social geography geology and geopolitics Where to look lists relevant printed digital and online resources with useful annotations explaining their scope and strengths Readership

This is the must have quick reference tool arming librarians and teachers with the knowledge to deal with any queries thrown at them from children and young people as well as their parents and caregivers It will also be a handy reference for parents and anyone working with children and young people in other organizations such as homework clubs and youth workers

Mathematics Linda Bostock, Suzanne Chandler, 1984 Dealing with mechanics and the solving of mechanical problems with the help of pure mathematics this A Level text introduces at an early stage an appreciation of the properties of vectors Throughout the book problems are solved using vector methods where appropriate and many worked examples are provided to illustrate each main development of a topic A set of straightforward problems follows each section and a selection of more challenging questions appears in the miscellaneous exercises at the end of most chapters with multiple choice questions on most topics

Chemistry for Advanced Level Course Ted Lister, Janet Renshaw, 2000 This course study guide is designed to complement New Understanding Chemistry for Advanced Level but it can be used with any other core textbook for AS and A Level Chemistry as well It aims to help further develop chemistry skills such as laboratory techniques mathematical methods and data handling The course study guide also provides outline solutions to a selection of questions and gives advice on answering all types of examination questions and support for Key Skills

GCSE Intermediate Maths Janet Crawshaw, Paul Langley, 1998-08 A textbook covering all the requirements for GCSE Intermediate Maths in three graded stages It also serves as a revision programme consisting of a summary and mixed exam questions at the end of each stage Included are reminders of key topics and work done at Key Stage 3 with fact sheets phased throughout Stage 1 A range of icons guide the user throughout the material indicating the topics covered key objectives definitions formulas dos and don'ts and sample questions

Higher GCSE Mathematics David Rayner, 2000 Oxford's best selling Revision and Practice books are renowned for their clear explanations and examples supported by a wealth of practice exercises and past examination questions that build students confidence for the exams ahead Building on the experience of earlier best selling titles David Rayner's new textbook provides valuable practice and challenging revision exercises for all students aiming for higher grades at GCSE Up to date curriculum coverage New non calculator work in line with curriculum changes Clear explanations and worked examples Numerous carefully constructed exercises and a section of ideas for longer investigations to encourage students to use and apply the mathematics they have learnt Practice exam questions Numerical answers to all questions

Pure Mathematics Andy Martin, 2000 This teacher's resource file covers the requirements of all AS and Advanced level mathematics courses and major specifications There is a section on chapter objectives that lists all the key areas covered in each chapter to aid lesson planning or assessment Teaching notes provide guidance and ideas on developing and enhancing the material provided in the core book as well as a list of topics that students are likely to find difficult A question bank of material is included for use in revision with fully worked solutions to all consolidation A questions

Key Maths David Baker, Chris Humble, Fiona McGill, 2001 For examination success this highly acclaimed course has been designed to be

enjoyable and motivating for students and teachers Core Maths for Advanced Level L. Bostock,S. Chandler,2000 Since the launch of the Human Genome project in 1990 understanding molecular and clinical genetics has become an essential aspect of modern medical education Solid knowledge of genetics is now crucial to a host of healthcare professionals including primary care physicians nurses and physician assistants This third edition takes this crucial information and incorporates it into a student friendly format that focuses on the core concept of human genetics Each chapter uses the same problem based approach as the previous editions and addresses the important role of genetics and disease by integrating molecular and clinical genetics *Maths for Advanced Physics* John Rounce,2002 Written by teachers and fully covering the 2002 A Level maths specifications for biology this text is useful for both classroom work and homework exercises Relevant for AS and A2 Levels of study and designed to be accessible and friendly in format its aim is to provide clear and concise explanations of mathematical concepts and how these are then applied in biology Worked examples are included throughout encouraging students to grasp the subject matter with ease Examination style questions and answer sections provide an opportunity for continuous progression and to consolidate learning **How to Start And Run A Home Tutoring Business** Gillian Stellman,Vivienne Howse,2012-11-06 This book is a complete business package in book form It contains a proven successful formula which eliminates the expensive trial and error period of setting up your own tutoring agency and guides you through every aspect of running your own business More and more people are seeking a flexible lifestyle which allow greater freedom while still earning a living Reading this book will give you the courage to take the first step towards what is a viable and exciting venture Statistics Fiona McGill,Stewart McLennan,Jane Migliorini,2000 This teacher s resource file covers the requirements of all AS and Advanced level mathematics courses and major specifications There is a section on chapter objectives that lists all the key areas covered in each chapter to aid lesson planning or assessment Teaching notes provide guidance and ideas on developing and enhancing the material provided in the core book as well as a list of topics that students are likely to find difficult A question bank of material is included for use in revision with fully worked solutions to all consolidation A questions Mathematics Today ,2002 **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 administration of examinations for 15-19 year olds in England Great Britain: Parliament: House of Commons: Education Committee,2012-07-03 Additional written evidence is contained in Volume 3 available on the Committee website at www.parliament.uk/educom The Times Index ,2008 Indexes the Times and its supplements **The British National**

Bibliography Arthur James Wells,2007 Who's who of British Scientists ,1980

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In a global driven by information and connectivity, the power of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Maths Cpast Papers Wjec**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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