

Please write clearly in block capitals.

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Surname

Forename(s)

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I declare this is my own work.

A-level FURTHER MATHEMATICS

Paper 1

Thursday 25 May 2023

Afternoon

Time allowed: 2 hours

Materials

- You must have the AQA Formulae and statistical tables booklet for A-level Mathematics and A-level Further Mathematics.
- You should have a graphical or scientific calculator that meets the requirements of the specification.

Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer each question in the space provided for that question. If you require extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do not write outside the box around each page or on blank pages.
- Show all necessary working; otherwise marks for method may be lost.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.

Advice

- Unless stated otherwise, you may quote formulae, without proof, from the booklet.
- You do not necessarily need to use all the space provided.

For Examiner's Use

Question	Mark
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Aqa Further Mathematics Set 4 Paper 1

Brian Speed, Keith Gordon, Kevin Evans

Aqa Further Mathematics Set 4 Paper 1:

A Level Further Mathematics for AQA Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-11-23 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the AQA AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study This book has entered an AQA approval process

AQA A Level Further Mathematics Discrete Nick Geere, 2018-09-03 Exam board AQA Level A level Subject Mathematics First teaching September 2017 First exams Summer 2019 Whiteboard eTextbooks are online interactive versions of the printed textbooks that are ideal for front of class teaching and lesson planning The Whiteboard eTextbooks link seamlessly with MEI Integral Further Mathematics online resources allowing you to move with ease between corresponding topics in the eTextbooks and Integral Integral has been developed by MEI and supports teachers and students with high quality teaching and learning activities including dynamic resources and self marking tests and assessments that cover the new specifications To have full access to the eTextbooks and Integral resources you must be subscribed to both Dynamic Learning and Integral To subscribe to Integral visit www.integralmaths.org For more information on our eTextbooks and Integral please see the Quick Links box Provide full support for the AQA Discrete content of the new specification with worked examples stimulating activities and assessment support to help develop understanding reasoning and problem solving Help prepare students for assessment with skills building activities and fully worked examples and solutions tailored to the changed criteria Build understanding through carefully worded expositions that set out the basics and the detail of each topic with call outs to add clarity Test knowledge and develop understanding reasoning and problem solving with banded Exercise questions that increase in difficulty answers provided in the back of the book and online Gain a full understanding of the logical steps that are used in creating each individual algorithm Encourages students to track their progress using learning outcomes and Key Points listed at the end of each chapter

A-Level Biology for AQA: Year 1 & 2 Student Book CGP Books, 2020-09-29 This comprehensive CGP student book covers both years AQA A Level Biology It contains in depth accessible notes explaining every topic supported by clear diagrams photographs tips and worked examples To test students knowledge and understanding there are practice questions and exam style questions throughout the book with complete answers included There s also detailed guidance on Maths Skills Practical Investigations and indispensable advice for success in the final exams If you prefer separate CGP student books are available for Year 1 9781782943198 and Year 2 9781782943242 of AQA A Level Biology

AQA A Level Further Mathematics Statistics John du Feu, 2018-03-26

Build your knowledge and understanding with guidance and assessment preparation covering the Statistics options of the new AS and A level specifications from a team of subject experts and authors sourced from MEI Build reasoning and problem solving skills with practice questions and well structured exercises that improve statistical techniques Develop a fuller understanding of statistics concepts with real world examples that help build connections between topics and develop modelling skills Address misconceptions and develop problem solving with annotated worked examples Supports you at every stage of your learning with graduated exercises that improve understanding and measure progress **AQA A Level**

Further Mathematics Year 1 (AS) Ben Sparks, Claire Baldwin, 2017-11-27 Develop your students knowledge skills and understanding so that they can reason and apply mathematical techniques in solving problems with resources developed specifically for the AQA specification by subject specialists and MEI Mathematics in Education and Industry Ensure targeted development of reasoning and problem solving skills with practice questions and differentiated exercises that build mathematical techniques 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 Develop understanding address misconceptions and progress skills further with a variety of worked examples and solutions practice questions and activities Enhance individual understanding with discussion points designed for the classroom Consolidate understanding with end of chapter summaries of the key points **AQA Foundation**, 2002 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets **AQA Level 2**

Certificate in Further Mathematics (3rd edition) Andrew Ginty, Val Hanrahan, David Pritchard, 2025-05-30 Stretch and challenge students with the 3rd edition of this introduction to higher level mathematics Plenty of practice activities worked solutions and exercise questions help students to master the mathematical reasoning skills they need to succeed and prepare for the transition from GCSE to A level Build understanding of mathematics with discussion points thought provoking activities and rigorous exercise questions Develop problem solving skills and learn to use mathematical arguments with step by step worked examples Be mindful of possible misunderstandings common pitfalls are noted throughout the text Check knowledge and understanding with a topic checklist of key points and learning objectives at the end of each chapter Embed understanding with free online access to narrated step by step examples on the Hachette Learning website Helps students to achieve their potential with two practice papers [Maths for AQA Modular GCSE](#) Brian Speed, Keith Gordon, Kevin

Evans, 2006-05 This Homework books accompanies the GCSE Maths scheme for AQA Modular B Foundation **Further Pure Maths 1** Sam Boardman, 2004 Further Pure Maths 1 was written to provide thorough preparation for the revised 2004 specification Based on the first editions this series help you to prepare for the new exams *GCSE Mathematics for AQA Foundation Student Book* Karen Morrison, Julia Smith, Pauline McLean, Nick Asker, Rachael Horsman, 2015-04-30 Created

specifically for the AQA GCSE mathematics foundation tier specification for first teaching from 2015 this student book provides full coverage of the qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically

Advancing Maths for AQA: Statistics 2 2nd Edition (S2) Roger Williamson Williamson et al, Roger Williamson, Keith Parramore, 2005-03 Including clear explanations detailed worked examples and self assessment tests this textbook meets the 2004 AQA specifications and builds on good GCSE practice by emphasising applications and providing coverage of the key concepts

A-Level Physics for AQA: Year 1 & 2 Student Book, 2020-09-30 This unbeatable CGP Student Book covers all of the core content for both years of AQA A Level Physics plus the optional topics 9 12 It s brimming with in depth accessible notes clear diagrams photographs tips and worked examples Throughout the book there are lots of practice questions and end of section summaries with exam style questions answers at the back There s detailed guidance on Maths Skills and Practical Skills as well as indispensable advice for success in the final exams If you d prefer Year 1 9781782943235 Year 2 9781782943280 in separate books CGP has them too And for more detailed coverage of the mathematical elements of A Level Physics try our Essential Maths Skills book 9781782944713

Aqa Foundation Revision Handbook Pearson Education, 2008-01-23 Includes colour coded pages that help students revise at the speed they need This book highlights the sub topics most likely to be tested in the exam It decodes the maths language used in exam papers Practice questions and tests indicate the grade students are working at It includes exam style practice papers written by examiners

Key Maths GCSE David Baker, 2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets

The Times Index, 2012 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

The Essentials of Maths John Proctor, Susan Ball, 2005 Covering levels 3 6 this is a generic revision guide for key stage 3 maths

Key Maths GCSE, 2001 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets

AQA Smart GCSE Combined Science: Trilogy: AQA Smart Physics for GCSE Combined Science: Trilogy Teacher Handbook Jonathan Lansley-Gordon, 2025-09-11 This AQA GCSE Combined Science Trilogy Physics Teacher Handbook ebook edition has been brought right up to date to meet the needs of today s science teachers Subject and non subject specialists can be confident that this guide gives them what they need to pick up and teach GCSE Physics lessons that will have a lasting impact on their students This book is full of clear guidance and explanations including topic overviews common misconceptions key terminology and ideas to help you to relate the content to relevant

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