



Tuesday 4 June 2024 – Afternoon

A Level Mathematics A

H240/01 Pure Mathematics

Time allowed: 2 hours

You must have:

- the Printed Answer Booklet
- a scientific or graphical calculator

QP

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined page at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Fill in the boxes on the front of the Printed Answer Booklet.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give non-exact numerical answers correct to **3** significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by $g \text{ ms}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.
- Do not send this Question Paper for marking. Keep it in the centre or recycle it.

INFORMATION

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [].
- This document has **8** pages.

ADVICE

- Read each question carefully before you start your answer.

As Level Ocr A Mathematics

**Sophie Goldie, Susan Whitehouse, Val
Hanrahan, Cath Moore, Jean-Paul
Muscat**

As Level Ocr A Mathematics:

A Level Mathematics for OCR A Student Book 2 (Year 2) Vesna Kadelburg, Ben Woolley, 2018-01-25 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR A Level Mathematics specification for first teaching from 2017 this print Student Book covers the content for the second year of 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

AS Level Mathematics Through Diagrams Dick Russell, Juli Beales, 2002 Split into sections on Pure Mathematics Statistics Mechanics and Discrete Mathematics this one book is the essential study companion for all your AS Mathematics students Ideal either as a class text or as a useful revision guide Mathematical concepts and principles presented in a clear straightforward style Each section includes a wealth of examination style questions and answers Suitable for any specification the book features an AS specification mapping grid so you can feel confident that your specification is covered

A2 Level Maths OCR Complete Revision & Practice Cgp Books, 2011-03-28 A2 Level Maths OCR Complete Revision and Practice

A Level Further Mathematics for OCR A Statistics Student Book (AS/A Level) Vesna Kadelburg, Ben Woolley, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Statistics 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

A Level Further Mathematics for OCR A Pure Core Student Book 1 (AS/Year 1) Ben Woolley, 2017-08-31 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Pure Core content for AS and the first year of 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

A Level Mathematics for OCR A Student Book 1 (AS/Year 1) Ben Woolley, 2017-07-06 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR AS A Level Mathematics specifications for first teaching from 2017 this print Student Book covers the content for AS and the first year of 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 **OCR A Level Mathematics Year 1 (AS)** Sophie Goldie,Susan Whitehouse,Val Hanrahan,Cath Moore,Jean-Paul Muscat,2017-10-23 Boost your students knowledge skills and understanding so that they can reason and apply mathematical techniques in solving problems with resources developed specifically for the OCR specification by subject experts and in conjunction with MEI Mathematics in Education and Industry Boosts students confidence approaching assessment with plenty of practice questions and skill focused exercises 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 Ensure targeted development of problem solving proof and modelling with dedicated sections on these key areas Help students to overcome misconceptions and develop insight into problem solving with annotated worked examples Enhance individual understanding with discussion points designed for the classroom and end of chapter summaries of the key points Tackle the new statistics requirements with five dedicated statistics chapters and questions around the use of large data sets Address the use of technology in Mathematics with a variety of questions based around the use of spreadsheets graphing software and graphing calculators Provide clear paths of progression that combine pure and applied maths into a coherent whole Equal Educational Opportunity and Nondiscrimination for Girls in Advanced Mathematics, Science, and Technology Education United States Commission on Civil Rights,2000 **Mathematics** Peter Sherran,Janet Crawshaw,2005 The Revise A2 study guides updated with 2006 specifications are written by examiners and contain in depth course coverage of the key information plus hints tips and guidance End of unit sample questions and model answers provide essential practice to improve students exam technique OCR A Level Mathematics Year 2 Sophie Goldie,Val Hanrahan,Cath Moore,Susan Whitehouse,Jean-Paul Muscat,2018-03-29

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As Level Ocr A Mathematics Introduction

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