

THE 2024 OCR AS Level Further Mathematics A Y535/01 Additional Pure Mathematics Question Paper with Detailed Mark Scheme



Friday 14 June 2024 – Afternoon

AS Level Further Mathematics A

Y535/01 Additional Pure Mathematics

Time allowed: 1 hour 15 minutes

You must have:

- the Printed Answer Booklet
- the Formulae Booklet for AS Level Further Mathematics A
- 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 pages 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 gms^{-2} . When a numerical value is needed use $\text{g} = 9.8$ 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 **60**.
- The marks for each question are shown in brackets [].
- This document has **4** pages.

ADVICE

- Read each question carefully before you start your answer.

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GCSE Mathematics for OCR Foundation Student Book Karen Morrison, Julia Smith, Pauline McLean, Nick Asker, Rachael Horsman, 2015-04-09 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the OCR J560 GCSE Mathematics Foundation tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics 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 Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as Problem solving Books Homework Books and a free Teacher s Resource **GCSE Maths** J Templeton Academia Ltd, 2014-08-11 GCSE Maths *O-level Additional Mathematics Challenging Exam Solutions (Yellowreef)* Thomas Bond, Chris Hughes, 2013-11-26 10 sets of complete solutions to the challenging examination questions full and complete mark schemes and exam reports are included for the candidate to review his her answers best used just before taking the actual examination complete edition eBook available 11+ Mathematics Mark Scheme (Spring Term 2014) Iseb Iseb, 2013-11-29 **OCR Additional Mathematics Revision Guide for Advanced Free Standing Mathematics Qualification** Michael Ling, 2012-01-01 Essential revision guide matching the OCR specification will help your students refresh their knowledge of tricky concepts with past paper exam questions Detailed worked answers are also included so students can better prepare for their exam Reinforces and refreshes your original teaching by referencing the endorsed textbook Revision is kept stress free and focused with key information explained in concise terms Written by specialist authors with experience and vast knowledge of the covered topics CONTENTS Section 1 Algebra 1 Basic algebra 2 Quadratic equations 3 Simultaneous equations 4 Setting up equations 5 Inequalities 6 Polynomials 7 The binomial expansion Section 2 Co ordinate Geometry 1 Straight lines 2 Circles 3 Linear programming Section 3 Trigonometry 1 The trigonometrical ratios 2 Identities and equations 3 Area and the sine and cosine rules 4 2 D and 3 D problems Section 4 Calculus 1 Differentiation 2 Tangents and normals 3 Stationary points 4 Integration 5 Definite integrals and area 6 Kinematics 11+ Mathematics Mark Scheme (Autumn Term 2014) Iseb Iseb, 2014-06-24 **OCR Advanced FSMQ - Additional Mathematics** Stephen Doyle, 2015-02-24 The OCR endorsed textbook is an excellent step by step approach to Advanced FSMQ Additional Maths 2002 specification and covers the majority of the content for first teaching 2018 specification helping students make the transition to A Level Plenty of examples practice questions and advice on exam skills help prepare students to succeed **My Revision Notes: OCR Level 3 Free Standing Mathematics Qualification: Additional Maths (2nd edition)** Michael Ling, 2019-11-18 Exam Board OCR Level Free Standing Mathematics Qualification Subject Additional Mathematics First Teaching September 2018 First Exam June 2019 Target success in OCR Additional

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Additional Maths (2nd edition) Val Hanrahan, Andrew Ginty, 2019-04-15 Exam Board OCR Level Free Standing Mathematics Qualification Subject Additional Mathematics First Teaching September 2018 First Exam Summer 2019 Enhance the skills learnt at GCSE and build the confidence to tackle higher level Mathematics using this comprehensive textbook tailored to the new OCR Additional Mathematics specification 2018 Consolidate GCSE Maths skills and prepare for A level using hundreds of questions designed to bridge the gap between Key Stages 4 and 5 Expand on GCSE knowledge and confidently tackle new concepts with clear introductions to every topic and plenty of worked examples throughout Boost performance in Additional Maths and A level Maths with expert guidance from subject specialists with extensive examining experience Save time planning lessons using our free schemes of work that link to the relevant Integral resources Approach your final assessment with confidence by completing two full practice papers at the end of the book **13+ Mathematics Level 3 Mark Scheme (Spring Term 2014)** Iseb Iseb, 2013-11-29 **Additional Mathematics** Vali Nasser, 2014-08-28 This book will prepare you well for the Additional Mathematics exam set by OCR Although it starts gently with a few reminders it builds up quickly to the level required in the various topics you can expect in the exam The book assumes that you have achieved or can achieve a good grade B A or A in GCSE maths The content covers the four essential areas that you will be tested on which includes Algebra Co ordinate Geometry Trigonometry and Calculus It also includes some Kinematics to familiarize you with Applied Mathematics The FSMQ Advanced Free Standing Mathematics Qualification will prepare you well for doing mathematics at a higher level This will be particularly true if you want to progress to AS or A2 and get familiar with most aspects of Core1 syllabus with ease **Additional Mathematics** ,2024 *13+ Mathematics Level 3 Mark Scheme (Summer Term 2014)* Iseb Iseb, 2014-03-28 Additional Mathematics ,2015

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