

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.

Ocr Additional Maths 2014 Mark Scheme

Léo Pomar



Ocr Additional Maths 2014 Mark Scheme:

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 Mathematics with this proven formula for effective structured revision Key content coverage is combined with numerous worked examples and exam style questions to create a revision guide that students can rely on to review strengthen and test their knowledge Develop the key skills needed for success with skills focused questions around problem solving covering the 2018 specification Strategically target revision with diagnostic questions that establish which topics need focus Get assessment ready with exam style questions and advice on common mistakes and how to show the correct workings Reinforce knowledge and identify weaknesses using hundreds of questions supported by answers in the back of the book

Fsmq in a Nutshell The Maths Clinic, 2017-02-17 FSMQ in a nutshell the ultimate revision and study guide for the OCR Free Standing Mathematics Qualification This book covers the four main branches of Pure Mathematics Algebra Co ordinate Geometry Trigonometry and Calculus and introduces with each branch a topic of Applied Mathematics Absolutely all you need to know to ace your exam

Additional Mathematics, 2024 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

Additional Mathematics, 2024 **Additional Mathematics**, 2024 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

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OCR Level 3 Free Standing Mathematics Qualification:

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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