

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

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A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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 **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 *11+ Mathematics Mark Scheme (Autumn Term 2014)* Iseb Iseb, 2014-06-24 [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 **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 [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 *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 **13+ Mathematics Level 3 Mark Scheme**
(Spring Term 2014) Iseb Iseb,2013-11-29 *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
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The Top Books of the Year Ocr Additional Maths 2014 Mark Scheme The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. Ocr Additional Maths 2014 Mark Scheme : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Ocr Additional Maths 2014 Mark Scheme : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ocr Additional Maths 2014 Mark Scheme : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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