

# OCR

Oxford Cambridge and RSA

**Friday 19 May 2023 – Afternoon**

**GCSE (9–1) Computer Science**

**J277/01 Computer Systems**

**Time allowed: 1 hour 30 minutes**

Do not use:  
a calculator

Please write clearly in black ink. Do not write in the barcodes.

Centre number

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Candidate number

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First name(s)

Last name

## INSTRUCTIONS

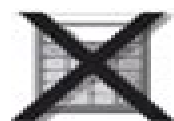
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

## INFORMATION

- The total mark for this paper is **80**.
- The marks for each question are shown in brackets [ ].
- Quality of extended response will be assessed in questions marked with an asterisk (\*).
- This document has **16** pages.

## ADVICE

- Read each question carefully before you start your answer.



## S3 June 2013 Question Paper Ocr

**Jan Dangerfield, Rose Jewell, Sue  
Pope, Andrew Roberts, Nick Geere**

### S3 June 2013 Question Paper Ocr:

*Mining Scientific Papers: NLP-enhanced Bibliometrics* Iana Atanassova, Marc Bertin, Philipp Mayr, 2019-10-09

**Statistics 3 and 4 for OCR** Jane Miller, 2005-01-06 Fully endorsed by OCR and revised to match the 2005 specification this series has been carefully revised by experienced teachers and provides easy to use texts Cambridge Advanced Mathematics for OCR encourages achievement by supporting revision and consolidation through review exercises and mock exam papers written by experienced examiners The books also explore ideas through practical and computer activities

**Key Maths GCSE** ,2002 These resources offer a range of material for the OCR Specification *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 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 *New A-Level Maths for OCR: Year 1 & 2*

*Exam Practice Workbook* CGP BOOKS., 2017-10-20 [OCR A Level Further Mathematics Core Year 1 \(AS\)](#) Ben Sparks, Claire Baldwin, John du Feu, Jean-Paul Muscat, 2017-09-29 Grow your students confidence in applying mathematical techniques to solving problems with resources developed specifically for the OCR specification subject experts and in conjunction with MEI Mathematics in Education and Industry [Decision 1 for OCR](#) Janet Crawshaw, Janet Dangerfield, 2005 Focused revision to improve learning for AS and A2 OCR *OCR Year 1/AS Mathematics Exam Practice* Jan

Dangerfield, Rose Jewell, Sue Pope, Andrew Roberts, Nick Geere, 2018-03-29      **OCR B [MEI] A Level Mathematics Exam Practice** Jan Dangerfield, Rose Jewell, Sue Pope, Nick Geere, 2018-09-28 Exam board OCR Level A level Subject Mathematics  
 First teaching September 2017 First exams Summer 2019 Benefit from the expert input of experienced examiners and subject specialists including Heather Davis in this assessment led Practice Book tailored to the new 2017 specifications and packed with exam style questions Thoroughly prepare your students for the exam with over 200 exam style questions that are matched to the new specifications Provide structured support and extra practice with questions focused on problem solving modelling and technology Create opportunities for self directed learning and assessment with answers at the back of the book plus full step by step worked solutions and mark schemes supplied online Enhance learning with extra practice designed to supplement the textbooks and the My Revision Notes series      *OCR GCSE (9-1) Psychology* Mark  
 Billingham, Helen Kitching, 2017-06-30 Exam Board OCR Level GCSE Subject Psychology First Teaching September 2016 First Exam June 2018 Help students to build their subject knowledge and understanding with activities guidance and assessment preparation tailored to the 2017 OCR requirements and brought to you by subject specialist and OCR s Publishing Partner for GCSE Psychology Prepare students for assessment with skills building activities and practice questions developed for the new specification Progressively develop students subject knowledge through accessible diagrams and key content summaries that aid understanding and help weaker students access the main points Build conceptual understanding and critical thinking skills with a wealth of targeted activities Extend learning and enhance responses with extension questions stimulus material and suggestions for further reading Consolidate understanding of technical vocabulary and core concepts through accessible explanations of key terms Contents Introduction 1 Criminal Psychology 2 Development 3 Psychological problems 4 Social influence 5 Memory 6 Sleep and Dreaming 7 Research Methods      **Statistics 1 for OCR**  
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web balancing nuclear equation or naming the unknown species to make sure the sum of this atomic numbers and mass mathematics are equal

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web a balanced nuclear reaction equation indicates that there is a rearrangement during a nuclear reaction but of nucleons subatomic particles within the atoms nuclei rather than atoms nuclear reactions also follow conservation laws and they are balanced in two ways

web radioactive decay aqa with the wrong number of neutrons nuclei can fall apart a nucleus will regain stability by emitting alpha or beta particles and then cool down by emitting gamma

web balancing nuclear equations name period there are two types of nuclear reactions fission where a nucleus breaks into two or more pieces and fusion where two or more nuclei combine to form a new element in nuclear reactions only the nucleus is involved electrons are ignored

web nuclear reactions are going on all around us using correctly balanced equations is important whetting to understand nuclear reactions all equations need to be balance to conform to two conservation

web the first two equations have been balanced for you alpha particle  $\alpha$  2 4 beta particle  $\beta$  gamma ray  $\gamma$  proton p neutron n 0 positron  $\beta^+$  0 1 30 1 65 1 2 63 2 15 0 30 0 65 30 9 29 2 2 12 6 15 32 30

we can write a balanced nuclear equation for this reaction as let's do a practice example identify the product x by writing a balanced nuclear equation  $^{137}_{55}\text{Cs} \rightarrow ^{137}_{56}\text{Ba} + x$  because the mass number is the same on both sides of the equation x must have a

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