



**Cambridge International Examinations**  
Cambridge International General Certificate of Secondary Education

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**MATHEMATICS**

0580/22

Paper 2 (Extended)

May/June 2014

1 hour 30 minutes

Candidates answer on the Question Paper

Additional Materials:

Electronic calculator

Geometrical instruments

Tracing paper (optional)

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For  $\pi$ , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total of the marks for this paper is 70.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of 12 printed pages.



# Ocr Gcse Ict Past Papers B061

**LL Leslie**



## Ocr Gcse Ict Past Papers B061:

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*My Revision Notes: OCR GCSE (9-1) Computer Science, Third Edition* George Rouse, 2021-06-25 Target exam success with My Revision Notes. Our updated approach to revision will help students learn, practise and apply skills and understanding. Coverage of key content is combined with practical study tips and effective revision strategies to create a guide students can rely on to build both knowledge and confidence. My Revision Notes OCR GCSE Computer Science will help students strengthen subject knowledge and key terms by working through clear and focused key content.

**GCSE OCR Computer Science for the Grade 9-1 Course** Shaun Whorton, *GCSE OCR Computer Science For the Grade 9-1 Course*, 2020

OCR Gcse (9-1) Computer Science S Robson, P M Heathcote, 2016-06-15 The aim of this book is to provide an accessible text for students covering each of the elements in the OCR GCSE 9-1 Computer Science specification J276. It will be invaluable both as a course text and in revision for students nearing the end of the course. It is divided into eight sections, each broken down into manageable chapters of roughly one lesson. Sections 5 and 6 of the textbook cover algorithms and programming concepts with a theoretical approach to provide students with experience of writing, tracing and debugging pseudocode solutions without the aid of a computer. These sections would complement practical programming experience. Each of the eight

sections cover one of the major topics in this course and each subtopic contains sample examination questions from past papers which can be set as homework      **OCR GCSE 9-1 Computer Science Workbook** Collins Collins GCSE,Paul Clowrey,2020-09-17 Exam Board OCRLevel GCSE 9 1Subject Computer ScienceFirst Teaching September 2020 First Exams June 2022Suitable for the 2022 examsThis Collins OCR Computer Science GCSE 9 1 Workbook contains topic based questions as well as a full practice paper and answers With lots of realistic practice opportunities for a variety of different exam style questions With a workbook and practice exam paper in one book it contains plenty of practice opportunities to ensure the best results Includes selection of questions covering each topic topic by topic practice complete exam style paper

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through detailed topic coverage and explanation of key terms Develops computational thinking skills with practice exercises and problem solving tasks Ensures progression through GCSE with regular assessment questions that can be developed with supporting Dynamic Learning digital resources Instils a deeper understanding and awareness of computer science and its applications and implications in the wider world      *Gcse Computing (OCR)* Susan Robson,2014-09-01 This textbook provides comprehensive yet concise coverage of all the topics covered in Unit A451 Computer Systems and Programming of the OCR GCSE Computing Specification J275 written and presented in a way that is accessible to teenagers It will be invaluable both as a course text and as a revision guide for students nearing the end of their course It is divided into seven chapters corresponding to the seven sections of the specification each ending with a Glossary of terms and exam questions from past OCR GCSE papers      **OCR GCSE (9-1) Computer Science: Exam Question Practice Pack** HODDER.

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web you may work out the mole fractions on your own problem 5 what is the mass of a sample of a 0 449 molal kbr that contains 2 92 kg of water 1 molality moles solute divided by kilograms solute  $\frac{0.449 \text{ mol}}{2.92 \text{ kg}} \times 1.31108 \text{ mol of kbr} \times \text{moles times molar mass equals grams}$  1 31108 mol 119 0023 g mol 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane  $\text{C}_6\text{H}_{14}$  d 0 660 g  $\text{cm}^3$  when it is mixed with heptane  $\text{C}_7\text{H}_{16}$  d 0 684 g  $\text{cm}^3$  in a 35 0 55 0 ml ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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web since the mole fraction of the o 2 is 0.050 it contributes 0.050 or if you will 5.0 of the total pressure thus total pressure is 0.21 0.050 4.2 atm problem 9 a sample of 1.43 g of helium and an unweighed quantity of o 2 are mixed in a flask at room temperature