



**ADVANCED SUBSIDIARY GCE
CHEMISTRY A**
Atoms, Bonds and Groups

F321

Candidates answer on the Question Paper

OCR Supplied Materials:

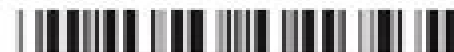
- *Data Sheet for Chemistry A* (inserted)

Other Materials Required:

- Scientific calculator

**Friday 21 May 2010
Afternoon**

Duration: 1 hour




Candidate Forename						Candidate Surname					
Centre Number						Candidate Number					

INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
-  Where you see this icon you will be awarded marks for the quality of written communication in your answer.
This means for example you should:
 - ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear;
 - organise information clearly and coherently, using specialist vocabulary when appropriate.
- You may use a scientific calculator.
- A copy of the *Data Sheet for Chemistry A* is provided as an insert with this question paper.
- You are advised to show all the steps in any calculations.
- The total number of marks for this paper is **60**.
- This document consists of **16** pages. Any blank pages are indicated.



Ocr F321june 2009

Richard Allan



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is required to get a better grade **OCR Revise AS Chemistry** Mike Wooster, Helen Eccles, 2008 Written by experienced examiners this title offers tips on tricky areas and questions on each topic *Model Answers OCR Biology AS* Richard Allan, 2008-01-01 *OCR (A) AS Chemistry Student Unit Guide New Edition: Unit F322 Chains, Energy and Resources* Mike Smith, 2012-10-26 Written by a senior examiner Mike Smith this OCR A AS Chemistry Student Unit Guide is the essential study companion for Unit F322 Chains Energy and Resources This full colour book includes all you need to know to prepare for your unit exam clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index examiner s advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required exam style questions with graded student responses so you can see clearly what is required to get a better grade OCR A2 Critical Thinking Jill Swale, 2009-10-30 Student workbooks will support your teaching and help your students skills and developments The full colour student workbooks each cover key topics in core subject areas to complement the OCR A2 course in Critical Thinking Each topic comprises 1 2 pages of source material and 4 5 pages of related exercises designed to develop and test student skills with space provided for written answers The exercises take various forms including exam style questions both short answer and extended answer although the workbooks are not intended as mock exams They are designed for systematic classroom use to support your own scheme of work or as the basis of a revision programme Answers to the exercises are provided in an accompanying set of Teachers Notes Where there is no objectively right answer the notes identify the key points that should appear in the answer Student workbooks are available only in class sets of 10 Each set of workbooks includes one FREE copy of the teacher s notes Single copy ISBN 9780340973844 Pack of 5 ISBN 9781444104738 Pack of 10 ISBN 9781444104530 *AS-level chemistry* Richard Parsons, 2008 AS Level Chemistry OCR A Complete Revision Practice **OCR Medicine and Health Through Time Teacher's Resource Book + CD (SHP Smarter History Series)** Ian Dawson, Peter Smith, 2009-11-27 Help your students learn more effectively with SHP s active learning approach to GCSE History SHP Smarter History is a comprehensive series of books covering all the Schools History Project GCSE specifications They combine complete coverage of the specification content step by step coaching in exam skills all tackled through SHP s active learning enquiry based approach which makes lesson planning easy and helps ensure varied pace throughout the course essential to keep your students motivated over a long period These books put the fun back into teaching and learning at GCSE but without any compromise they still help students achieve the highest grades At every relevant stage through the book the Exam Buster features help blend exam preparation with historical learning so that by the end of the course students understand not only the period and its issues but also how they will be expected to think and write about this for the examination This is the best of both worlds from the experts who know what good teaching is about and also know what the SHP specifications are all about OCR Medicine and Health This title is a course book for students taking the OCR Medicine Development Study The textbook covers all the

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