



**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 Reference									
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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 80.
- This document consists of 18 pages. Any blank pages are indicated.

Ocr F321 2014

Rob Ritchie, Dave Gent



Ocr F321 2014:

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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 A Level Chemistry A.** Emma Poole,2016

AS-level chemistry Richard Parsons,2008 AS Level Chemistry OCR A Complete Revision Practice *A2 Law for OCR Unit G153: Criminal Law and Unit G154: Criminal Law Special Study* Sally Russell,2015-02-16 Written by an experienced teacher and senior examiner this book covers all the law needed for OCR A2 Unit G153 Criminal Law and Unit G154 Criminal Law Special Study Unit Fully updated in 2015 with recent cases and laws it is written in a lively clear and accessible way and is designed to help students of all learning styles to understand the subject It can be used as a self study guide as well as in the classroom and includes Stimulating tasks self test questions exam tips and key cases highlighted to help with applying and evaluating the law Plenty of diagrams and examples to bring the subject to life Food for thought boxes to stimulate thought and help prepare for evaluation questions Ideas for connecting the substantive law to the Special Study Unit in every study area Examination practice complete with sample example examination answers and guidance for both G153 and G154 Answers to tasks self test questions are at www.drsr.org Although designed to match the OCR syllabus for A2 it also provides a sound base for 1st Year LLB ILEX and other courses Also available by Sally Russell THE LAW EXPLAINED SERIES Individual booklets covering specific topics of law from 2014 with lots of extra tasks examples and examination practice AQA A2 Law Unit 3A Criminal law Offences against the person AQA A2 Law Unit 4B Law of Torts AQA A2 Law Unit 4C Concepts of Law Revision for Criminal law Offences against the person A2 Law for AQA and A2 Law for OCR 2007 editions For more information visit www.drsr.org *OCR AS Physics* Roger Hackett,2007 OCR(B) AS/A2 Chemistry (Salters) Student Unit Guide: Units F333 and F336 Chemistry in Practice and Individual Investigation Frank Harriss,2011-12-09 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements This guide offers advice on preparing for the OCR B Salters Units F333 Chemistry in Practice and F336 Individual Investigation assessments The Practical Chemistry section deals with experimental results and practical techniques It explains how to obtain and record results and how to process them **OCR AS and A Level Computer Science** P. M. Heathcote,R. S. U. Heathcote,2016

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