



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

F321



Candidate, Examiner and Centre Details

OCR Examinations Board

- Check Number: 1336 Chemistry A (Centre 500)

Other Examinations Registered

- Geometrical optics

Friday 21 May 2010

Afternoon

Duration: 1 hour



Candidate Present		Candidate Absent	
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Candidate Number:

Candidate Number:

**INSTRUCTIONS FOR CANDIDATES**

- Write your name, centre number, your Candidate Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for drawing and sketches only.
- Read each question carefully and make sure that you have time for all parts of the examination.
- Answer all the questions.
- Do not write in the last section.
- Write your answers in the spaces provided. If additional space is required, you should use the back pages of the test book. The Candidate Number will remain the same.

**INFORMATION FOR CANDIDATES**

- The number of marks to gain in brackets ( ) at the end of each question or part question.
- Within each line of the book you will be given a space for the quantity of written information in your answer.
  - This space for written work is:
  - intended to be large and that writing, particularly in longer answers, should be clear and legible;
  - intended for calculations, diagrams and diagrams, using appropriate nomenclature when appropriate.
- You may like to use the calculator.
- A copy of the Periodic Table of the Elements will be issued with this question paper.
- You are advised to answer all the questions in the following order:
- The total number of marks for this paper is 80.
- This examination consists of 18 questions, only marks for these are indicated.



## Ocr F321 2014:

*OCR A Chemistry AS Student Unit Guide: F321 New Edition Atoms, Bonds and Groups* Mike Smith, 2012-08-31 Written by a former senior examiner Mike Smith this OCR A AS Chemistry Student Unit Guide is the essential study companion for Unit F321 Atoms Bonds and Groups 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

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**OCR Revise Physics** David Sang, 2008-11 Engages students and supports them through the transition from GCSE and helps them to understand the underlying principles of science This book features examiner tips

on tricky areas and targeted at ensuring understanding with quick check questions on each topic *OCR A Chemistry A2 Student Unit Guide: Unit F324 New Edition: Rings, Polymers and Analysis* ePub Mike Smith, 2013-01-25 Student Unit Guides are perfect for revision. Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers. There are three sections to each guide. Introduction includes advice on how to use the guide, an explanation of the skills being tested by the assessment objectives, an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination. Content Guidance provides an examiner's overview of the module's key terms and concepts and identifies opportunities to exhibit the skills required by the unit. It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics. Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit. All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner.

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would also suggest you go to cylindrical coordinates if you really want to simulate pipeflow good  
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web apr 15 2015 flows in pipe networks is a matlab code for computing flow discharges and pressures in complex pipe networks unlimited number of pipes this code can also handle any number of pumps