



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

F321



Candidate, Examiner and Centre Details

OCR Examinations Board

- Check Number: 1336 Chemistry A (Centre 600)

Other Examinations Registered

- Geometrical optics

Friday 21 May 2010

Afternoon

Duration: 1 hour

Candidate  
PresentationsCandidate  
Presentations

Candidate Number:

Candidate Number:

**INSTRUCTIONS FOR CANDIDATES**

- Write your name, centre, 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 find the standard symbol for the quantity of matter - mole - followed by your answer.
- This requires non-calculator work only:
  - calculate total molar mass and mole, percentage and gramme and calculate no. moles in 100g.
  - calculate concentration, density and consistency, using appropriate nomenclature when appropriate.
- You may use a scientific 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 one colour.
- The total number of marks for this paper is 80.
- This examination consists of 18 questions, only marks for these are indicated.

# Ocr F321 May 2013 Paper

**Mike Smith**

## Ocr F321 May 2013 Paper:

**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

**OCR(A) AS Chemistry Student Unit Guide: Unit F321 Atoms, Bonds and Groups** Mike Smith,2012-01-13 AS

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