

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 9 January 2009 Afternoon

Duration: 1 hour



Candidate	Candidate
Forename	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, however additional paper may be used if necessary.

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 Sheef 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 12 pages. Any blank pages are indicated.

FOR EXAMINER'S USE

Qu. Max. Mark

1 11
2 15
3 14
4 8
5 12

TOTAL 60

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