



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

**F321**

Candidates answer on the Question Paper

**OCR Supplied Materials:**

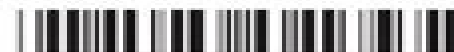
- *Data Sheet for Chemistry A* (inserted)

**Other Materials Required:**

- Scientific calculator

**Thursday 14 January 2010  
Morning**

Duration: 1 hour




|                    |  |  |  |  |  |                   |  |  |  |  |  |
|--------------------|--|--|--|--|--|-------------------|--|--|--|--|--|
| Candidate Forename |  |  |  |  |  | Candidate Surname |  |  |  |  |  |
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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, 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 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 **12** pages. Any blank pages are indicated.



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**Marcel A. Müller**



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