



**ADVANCED SUBSIDIARY GCE
CHEMISTRY A**
Chains, Energy and Resources

F322

Candidates answer on the Question Paper

OCR Supplied Materials:

- Data Sheet for Chemistry A (inserted)

Other Materials Permitted:

- scientific calculator

Thursday 14 January 2010
Morning

Duration: 1 hour 45 minutes



Candidate Reference									
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Candidate Number									
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Candidate 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 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 100.
- This document consists of 20 pages. Any blank pages are indicated.



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Zhe Xu



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