

**Advanced Subsidiary GCE
 CHEMISTRY A**

F322 QP

Unit F322: Chains, Energy and Resources

Specimen Paper

Candidates answer on the question paper.

Time: 1 hour 45
 minutes

Additional Materials:
 Data Sheet for Chemistry (inserted)
 Scientific calculator

Candidate
 Name

Centre
 Number

Candidate
 Number

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- **WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED.**

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
-  You will be awarded marks for the quality of written communication where this is indicated in the question.
- You may use a scientific calculator.
- A copy of the Data Sheet for Chemistry 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**.

FOR EXAMINER'S USE		
Qu.	Max.	Mark
1	14	
2	13	
3	15	
4	13	
5	12	
6	16	
7	17	
TOTAL	100	

This document consists of **18** printed pages, **2** blank pages and a *Data Sheet for Chemistry*.

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