

A-Level Chemistry - Year 2

OCR Chemistry A - Paper 1 June - 2019

16 Sir Humphrey Davy discovered several elements including sodium, potassium, magnesium, calcium and strontium.

(a) Explain which block in the Periodic Table sodium and magnesium belong to.

(1)

(b) A sample of magnesium, $A_r = 24.305$, is found to consist of three isotopes. The accurate relative isotopic masses and % abundances of two of the isotopes are shown in the table.

Isotope	Relative isotopic mass	% abundance
^{24}Mg	23.985	78.99%
^{26}Mg	24.986	10.00%

Determine the relative isotopic mass of the third isotope of magnesium in the sample.

Give your answer to 5 significant figures.

relative isotopic mass = _____ (2)

Question - 16

OCR

International Centre for

Tuesday 4 June 2019 – Afternoon

A Level Chemistry A

H43201 Periodic table, elements and physical chemistry

Time allowed: 1 hour 15 minutes

We need from:

1. An answer sheet (OCR form 1) and a pencil.

We also need:

1. A ruler and a calculator.



Please write clearly in block capitals. Do not write in the brackets.

Centre number

Candidate number

First name(s)

Last name

INSTRUCTIONS

- 1. Use black ink. You may use an HB pencil for graphs and diagrams.
- 2. Answer all the questions.
- 3. Where appropriate, your answers should be supported with working. Marks may be given for a correct method even if the answer is incorrect.
- 4. Write your answer to each question in the space provided. If additional space is required, use the back paper at the end of this booklet. The question numbers must be clearly shown.

INFORMATION

- 1. The total mark for this paper is 100.
- 2. The marks for each question are shown in brackets ().
- 3. Quality of extended responses will be assessed in questions marked with an asterisk (*).
- 4. This document consists of 32 pages.

Ocr Chemistry As Level Past Papers F321

JS Bruner



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Table of Contents Ocr Chemistry As Level Past Papers F321

1. Understanding the eBook Ocr Chemistry As Level Past Papers F321
 - The Rise of Digital Reading Ocr Chemistry As Level Past Papers F321
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Chemistry As Level Past Papers F321
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr Chemistry As Level Past Papers F321
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Chemistry As Level Past Papers F321
 - Personalized Recommendations
 - Ocr Chemistry As Level Past Papers F321 User Reviews and Ratings
 - Ocr Chemistry As Level Past Papers F321 and Bestseller Lists
5. Accessing Ocr Chemistry As Level Past Papers F321 Free and Paid eBooks
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- Ocr Chemistry As Level Past Papers F321 Budget-Friendly Options
- 6. Navigating Ocr Chemistry As Level Past Papers F321 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Chemistry As Level Past Papers F321 Compatibility with Devices
 - Ocr Chemistry As Level Past Papers F321 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Chemistry As Level Past Papers F321
 - Highlighting and Note-Taking Ocr Chemistry As Level Past Papers F321
 - Interactive Elements Ocr Chemistry As Level Past Papers F321
- 8. Staying Engaged with Ocr Chemistry As Level Past Papers F321
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Chemistry As Level Past Papers F321
- 9. Balancing eBooks and Physical Books Ocr Chemistry As Level Past Papers F321
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Chemistry As Level Past Papers F321
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Chemistry As Level Past Papers F321
 - Setting Reading Goals Ocr Chemistry As Level Past Papers F321
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Chemistry As Level Past Papers F321
 - Fact-Checking eBook Content of Ocr Chemistry As Level Past Papers F321
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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