

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
Examinations and Assessments

Tuesday 4 June 2019 – Afternoon

A Level Chemistry A

H43201 Periodic table, elements and physical chemistry

Time allowed: 1 hour 15 minutes

Useful facts

1. The data booklet is provided at the end of the question paper.

Useful facts

1. A periodic table is provided at the end of the question paper.



Please write clearly in black ink. Do not write in the brackets.

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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 writing. 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 June 2013 Past Paper F321

Michael Seilmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Table of Contents Ocr Chemistry June 2013 Past Paper F321

1. Understanding the eBook Ocr Chemistry June 2013 Past Paper F321
 - The Rise of Digital Reading Ocr Chemistry June 2013 Past Paper F321
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Chemistry June 2013 Past Paper 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 June 2013 Past Paper F321
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Chemistry June 2013 Past Paper F321
 - Personalized Recommendations
 - Ocr Chemistry June 2013 Past Paper F321 User Reviews and Ratings
 - Ocr Chemistry June 2013 Past Paper F321 and Bestseller Lists

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 - Ocr Chemistry June 2013 Past Paper F321 eBook Subscription Services
 - Ocr Chemistry June 2013 Past Paper F321 Budget-Friendly Options
6. Navigating Ocr Chemistry June 2013 Past Paper F321 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Chemistry June 2013 Past Paper F321 Compatibility with Devices
 - Ocr Chemistry June 2013 Past Paper F321 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Chemistry June 2013 Past Paper F321
 - Highlighting and Note-Taking Ocr Chemistry June 2013 Past Paper F321
 - Interactive Elements Ocr Chemistry June 2013 Past Paper F321
8. Staying Engaged with Ocr Chemistry June 2013 Past Paper F321
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Chemistry June 2013 Past Paper F321
9. Balancing eBooks and Physical Books Ocr Chemistry June 2013 Past Paper F321
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Chemistry June 2013 Past Paper F321
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr Chemistry June 2013 Past Paper F321
 - Setting Reading Goals Ocr Chemistry June 2013 Past Paper F321
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Chemistry June 2013 Past Paper F321
 - Fact-Checking eBook Content of Ocr Chemistry June 2013 Past Paper 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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