

A-Level Chemistry - Year 2

OCR Chemistry A - Paper 1 June - 2019

Question - 16

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)

OCR

International Centre for

Tuesday 4 June 2019 – Afternoon

A Level Chemistry A

H43201 Periodic table, elements and physical chemistry

Time allowed: 2 hours 15 minutes

We need from:

1. An identification number (A level only, please indicate)

We also need:

1. A certificate of printed material



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

Centre number

Candidate number

First name(s)

Last name

INSTRUCTIONS

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

INFORMATION

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

June 2013 Ocr Chemistry Past Paper F33

ML Yell

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red semi-circular shape positioned behind the bar's end.

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Table of Contents June 2013 Ocr Chemistry Past Paper F33

1. Understanding the eBook June 2013 Ocr Chemistry Past Paper F33
 - The Rise of Digital Reading June 2013 Ocr Chemistry Past Paper F33
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Ocr Chemistry Past Paper F33
 - 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 June 2013 Ocr Chemistry Past Paper F33
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Ocr Chemistry Past Paper F33
 - Personalized Recommendations
 - June 2013 Ocr Chemistry Past Paper F33 User Reviews and Ratings
 - June 2013 Ocr Chemistry Past Paper F33 and Bestseller Lists

5. Accessing June 2013 Ocr Chemistry Past Paper F33 Free and Paid eBooks
 - June 2013 Ocr Chemistry Past Paper F33 Public Domain eBooks
 - June 2013 Ocr Chemistry Past Paper F33 eBook Subscription Services
 - June 2013 Ocr Chemistry Past Paper F33 Budget-Friendly Options
6. Navigating June 2013 Ocr Chemistry Past Paper F33 eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 Ocr Chemistry Past Paper F33 Compatibility with Devices
 - June 2013 Ocr Chemistry Past Paper F33 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Ocr Chemistry Past Paper F33
 - Highlighting and Note-Taking June 2013 Ocr Chemistry Past Paper F33
 - Interactive Elements June 2013 Ocr Chemistry Past Paper F33
8. Staying Engaged with June 2013 Ocr Chemistry Past Paper F33
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 Ocr Chemistry Past Paper F33
9. Balancing eBooks and Physical Books June 2013 Ocr Chemistry Past Paper F33
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Ocr Chemistry Past Paper F33
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine June 2013 Ocr Chemistry Past Paper F33
 - Setting Reading Goals June 2013 Ocr Chemistry Past Paper F33
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2013 Ocr Chemistry Past Paper F33
 - Fact-Checking eBook Content of June 2013 Ocr Chemistry Past Paper F33
 - 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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