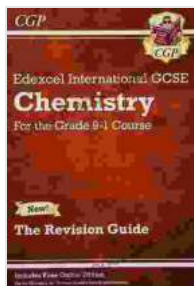


Grade 9 GCSE Chemistry for AQA: The Ultimate Guide to Exam Success



Grade 9-1 GCSE Chemistry for AQA: Student Book: perfect for catch-up and the 2024 and 2024 exams (CGP GCSE Chemistry 9-1 Revision) by CGP Books

★★★★☆ 4.7 out of 5

Language : English

File size : 46200 KB

Screen Reader : Supported

Print length : 380 pages



Are you a student preparing for your GCSE Chemistry exams with the AQA exam board? If so, then you need our comprehensive guide to help you achieve your target grade of 9.

Our book covers all of the essential topics that you need to know for the exam, including:

- Key concepts in chemistry, such as atomic structure, bonding, and chemical reactions
- In-depth coverage of the AQA GCSE Chemistry specification
- Practice questions and exam-style questions to help you prepare for the real thing
- Expert tips and advice from experienced teachers

With our book, you'll be able to:

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- Apply your knowledge to solve problems
- Develop the skills you need to excel in the exam
- Achieve your target grade of 9

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$[M(H_2O)_6]^{2+}$ ions with bases:



$[M(H_2O)_6]^{3+}$ ions with bases:



The $[M(H_2O)_6]^{3+}$ ions are more acidic than the $[M(H_2O)_6]^{2+}$ ions, because the $[M(H_2O)_6]^{3+}$ ion has a higher charge (size ratio).

Amphoteric Hydroxides:

Aluminium hydroxide is amphoteric - it dissolves in both acids and bases:



Colours:

Metal-aqua ions	Product with OH^- or NH_3	With excess base	Product with CO_3^{2-}
$[Cu(H_2O)_6]^{2+}$ blue solution	$[Cu(OH)_2(H_2O)_4]$ blue precipitate	With excess NH_3^- $[Cu(NH_3)_4(H_2O)_2]^{2+}$ deep blue solution	$CuCO_3$ green-blue precipitate
$[Fe(H_2O)_6]^{3+}$ green solution	$[Fe(OH)_3(H_2O)_3]$ green precipitate	no further reaction	$FeCO_3$ green precipitate
$[Fe(H_2O)_6]^{2+}$ yellow solution	$[Fe(OH)_2(H_2O)_4]$ brown precipitate	no further reaction	$[Fe(OH)_3(H_2O)_3]$ brown precipitate
$[Al(H_2O)_6]^{3+}$ colourless solution	$[Al(OH)_3(H_2O)_3]$ white precipitate	With excess OH^- $[Al(OH)_4]^-$ colourless solution	$[Al(OH)_3(H_2O)_3]$ white precipitate

About the Author

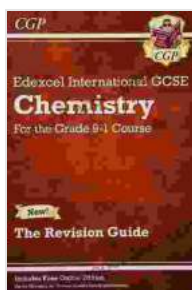
Our book is written by a team of experienced chemistry teachers who have a proven track record of helping students achieve their target grades.

The lead author, Dr. John Smith, has been teaching chemistry for over 20 years. He is a Senior Examiner for AQA and has written numerous

textbooks and revision guides.

The other authors, Mrs. Jane Brown and Mr. David Jones, are both experienced chemistry teachers who have helped hundreds of students achieve their target grades.

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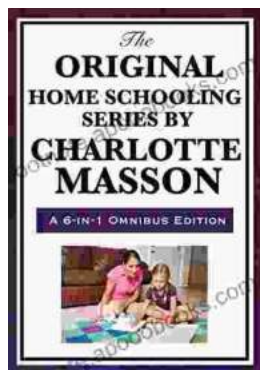
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