

OCR Chemistry A

4.2.4 Spectroscopy

Specification reference	Checklist questions	
☐ 4.2.4 a	Can you describe how infrared (IR) radiation causes covalent bonds to vibrate more and absorb energy?	
☐ 4.2.4 b	Can you explain absorption of infrared radiation by atmospheric gases containing C=O, O-H and C-H bonds (e.g. H ₂ O, CO ₂ and CH ₄); the suspected link to global warming and resulting changes to energy usage?	
☐ 4.2.4 c i	Can you use an infrared spectrum of an organic compound to identify an alcohol from an absorption peak of the O-H bond?	
☐ 4.2.4 c ii	Can you use an infrared spectrum of an organic compound to identify an aldehyde or ketone from an absorption peak of the C=O bond?	
☐ 4.2.4 c iii	Can you use an infrared spectrum of an organic compound to identify a carboxylic acid from an absorption peak of the C=O bond and a broad absorption peak of the O-H bond?	
☐ 4.2.4 d	Can you interpret and predict an infrared spectrum of familiar or unfamiliar substances using supplied data?	
☐ 4.2.4 e	Can you use infrared spectroscopy to monitor gases causing air pollution (e.g. CO and NO from car emissions) and in modern breathalysers to measure ethanol in the breath?	
☐ 4.2.4 f	Can you use a mass spectrum of an organic compound to identify the molecular ion peak and hence to determine molecular mass?	
☐ 4.2.4 g	Can you analyse fragmentation peaks in a mass spectrum to identify parts of structures?	
☐ 4.2.4 h i	Can you deduce the structures of organic compounds from different analytical data including elemental analysis?	
☐ 4.2.4 h ii	Can you deduce the structures of organic compounds from different analytical data including mass spectra?	

Ocr Gateway End Of Unit Test Oxford

Eliot Attridge, Dorothy Warren



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The School Science Review ,2007 OCR Gateway Science B Natalie King,Samantha Holyman,Claire Hutchinson,2011-09 With clear and concise revision notes that cover everything you ll need to know for the exam this effective OCR GCSE Science revision guide supports active revision for students working at all levels Plenty of quick tests and practice questions test and reinforce understanding of the key content Providing a student friendly uncluttered approach to GCSE revision this OCR Gateway Science B revision guide is suitable for all levels and contains succinct revision notes and practice questions that focus on the core content needed for the exams Included in this book clear and concise coverage of all the exam assessed content simple and engaging explanations quick tests and practice questions throughout to test and reinforce understanding key words and supporting glossary Separate units differentiated by colour and labelling exam style questions at the end of each unit overview of How Science Works

ence Worksence Worksence Works OCR Gateway GCSE Additional Science Exam Preparation and Assessment OxB Gurinder Chadha,2011-07-28 OurOCR Gateway GCSE Science course provides the simplest clearest approach to the OCR Gateway specifications with support motivation and exam preparation The GCSE Additional Science Exam Preparation and Assessment OxB provides help with Controlled Assessment and answering extended questions **Revision Plus - Ocr Gateway Gcse Additional Science** Tom Adams,Steve Langfield,Averil Macdonald,2011-09-01 This title is carefully matched to the exam board specification for focused study It includes clear explanations and supporting diagrams to ensure understanding and help students to prepare for the exam with confidence **OCR Twenty First Century GCSE Additional Science** Eliot Attridge,Dorothy Warren,2011-09 Packed full of GCSE style questions to test understanding this OCR gateway additional Science A revision and classroom companion is designed to help students revise everything they need to know and familiarise themselves with the types of questions that they may come across in the exam Endorsed by OCR this additional Science A revision and classroom companion provides in depth coverage of all the externally assessed course content for the GCSE OCR course Clear explanations and supporting diagrams ensure understanding and help students to prepare for the exam with confidence Included in this book in depth coverage that provides everything required for thorough exam preparation detailed explanations and diagrams to help consolidate and build on knowledge throughout the course clear design and direct references to the specification to provide structured revision and maximum assurance separate units differentiated by colour and labelling topic summaries provide at a glance topic overviews exam style questions at the end of each unit How Science Works overview **OCR Gateway Science** Sam Holyman,2013-01-01 OCR Gateway GCSE Chemistry Essentials covers all the exam assessed content on the OCR Gateway Chemistry specification It is designed to help students get the most out of their revision information is broken down into manageable chunks and higher tier material is clearly differentiated on the page **OCR Gateway GCSE Separate Sciences Student Book** Graham Bone,Simon Broadley,Sue Hocking,Mark

Matthews,Jim Newall,Angela Saunders,Nigel Saunders,2011-06-09 Our OCR GCSE Gateway Science course provides the simplest clearest approach to the new specifications easing the transition for you and helping students understand how to maximise their potential We focus on support motivation and exam preparation The Student Book helps your students develop clear scientific knowledge and understanding [OCR 21st Century Science](#) a Eliot Attridge,Dorothy Warren,Trevor Banham Baker,Neil Dixon,Robert Woodcock,Adam Bailey,Steve Wiseman,2011-09 Packed full of GCSE style questions to test understanding this OCR Gateway Science A exam practice workbook is designed to help familiarise students with the types of questions that they may come across in the exam Feel confident with thorough exam preparation for GCSE OCR Gateway Science A Including different question formats this exam practice workbook allows you to revise in a way that suits you best and improve your performance in the exam Included in this book a variety of question formats as used by OCR to give students the best possible practice prior to tests and exams lots of quick tests to check understanding relevant formulae and data sheets clear and concise coverage of the exam assessed content simple and engaging explanations highlighted key words plus a supporting glossary to build vocabulary [OCR Gateway GCSE Separate Sciences Resources and Planning Pack](#) Chadha,2011-07-21 Our OCR GCSE Gateway Science course provides the simplest clearest approach to the new specifications easing the transition for you and helping students understand how to maximise their potential We focus on support motivation and exam preparation This pack provides lesson plans homework activity sheets and teacher guidance

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