

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
 TWENTY-FIRST CENTURY SCIENCE
 CHEMISTRY A**

A173/02

(Unit A173: Module C1 (Higher Tier))

Duration: 1 hour

**Candidates should use the question paper.
 A calculator may also be used for this paper.**

**(OCR Supplied Materials:
 None)**

(Other Materials Required:

- Pencil
- Ruler (centimetre)

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- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Write your answer to each question in the space provided, however additional paper may be used if necessary.

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- The quality of written communication is assessed in questions marked with a pencil (1–7).
- The Marking Table is printed on the back page.
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- The total number of marks for this paper is **80**.
- This document consists of **20** pages. Any blank pages are indicated.

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	Mark	Marks
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3	15	
4	15	
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7	10	
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Advances in medicine often depend on the effective collection storage research use and sharing of human biological specimens and associated data But what about the sources of such specimens When a blood specimen is drawn from a vein in your arm is that specimen still you Is it your property intellectual or otherwise Should you be allowed not only to consent to its use in research but also to specify under what circumstances it may be used These and other questions are at the center of a vigorous debate over the use of human biospecimens in research In this book experts offer legal regulatory and ethical perspectives on balancing social benefit and human autonomy in biospecimen research After discussing the background to current debates as well as several influential cases including that of Henrietta Lacks the contributors consider the rights obligations risks and privacy of the specimen source different types of informed consent under consideration broad blanket and specific implications for special patient and researcher communities and the governance of biospecimen repositories and the responsibilities of investigators **2012 GCSE**

English results Great Britain: Parliament: House of Commons: Education Committee, 2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007/09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do OCR GCSE English Language: Book 2: Assessment preparation for Component 01 and Component 02 Garrett

O'Doherty, Jill Carter, Annabel Charles, Margaret Graham, 2020-07-16 Student Book 2 provides guidance and activities in the context of the Component 01 and Component 02 exam questions on how to improve reading and writing skills With the types of texts that students will face in the exams in context SPAG support and regular opportunities to monitor progress this book aims to improve exam performance **OCR 21st Century GCSE Additional Science**, 2011 **Thompson & Thompson Genetics in Medicine** Robert L. Nussbaum, Roderick R. McInnes, Huntington F Willard, 2015-05-21 Updated to reflect the newest changes in genetics Thompson Thompson's Genetics in Medicine returns as one of the most favored texts in this fascinating and rapidly evolving field By integrating the classic principles of human genetics with modern molecular genetics this medical reference book utilizes a variety of learning tools to help you understand a wide range of genetic disorders Acquire the state of the art knowledge you need on the latest advances in molecular diagnostics the Human Genome Project pharmacogenetics and bio informatics Better understand the relationship between basic genetics and clinical medicine with a variety of clinical case studies Recognize a wide range of genetic disorders with visual guidance from more than 240 dynamic illustrations and high quality photos Immerse yourself in updated graphics full color text illustrations line diagrams and clinical photos of genetic diseases Explore the latest genetic content available in order to remain up to date on the most current trends in the field Take advantage of a double page clinical case study section that demonstrates and reinforces general principles of disease inheritance pathogenesis diagnosis management and counseling Enhance your critical thinking skills and better retain information Each chapter ends with up to 5 quick genetic problems related to what has just been reviewed with answers provided in the back of the book Student Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices You'll also access USMLE style and multiple choice questions **OCR 21st Century Science a** Robert Woodcock, Trevor Baker, Neil Dixon, 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 A 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* *Interactive Storytelling* John T. Murray, María Cecilia Reyes, 2024-12-18 This two volume set LNCS 15467 and LNCS 15468 constitutes the refereed proceedings of the 17th International Conference on Interactive Digital Storytelling ICIDS 2024 held in Barranquilla Colombia during December 2-6 2024 The 21 full papers 9 short papers and 11 Late Breaking Works presented

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Essentials - OCR 21st Century Gcse Additional Science. Revision Guide Robert Woodcock,Neil Dixon,Trevor Baker,2011-09-01 This guide covers all the exam assessed content on the OCR 21st century additional science 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

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Applied Social Science Methodology John Gerring,Dino Christenson,2017-04-27 An innovative textbook introducing a variety of social science methodologies applicable to a range of social and political science disciplines

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