

ocr twenty first century science

****OCR Twenty First Century Science: A Comprehensive Guide to Modern Science Education****

ocr twenty first century science has revolutionized the way science is taught and understood in schools across the UK. Designed to reflect the dynamic and ever-evolving nature of scientific discovery, this curriculum offers students a modern, relevant, and engaging approach to learning science. Whether you're a student preparing for exams, a teacher planning lessons, or simply curious about contemporary scientific education, understanding OCR Twenty First Century Science is essential.

What is OCR Twenty First Century Science?

OCR, or Oxford Cambridge and RSA Examinations, is a leading examination board in the UK, and its Twenty First Century Science syllabus is a popular choice for GCSE science studies. This course was developed to make science more accessible and interesting by linking scientific concepts to real-world issues and contemporary challenges. Its focus on practical skills, critical thinking, and application sets it apart from more traditional science curricula.

The Twenty First Century Science suite includes separate sciences like Biology, Chemistry, and Physics, as well as combined science options. This flexibility allows schools to tailor the course to their students' needs while maintaining a consistent focus on understanding scientific principles in the context of the modern world.

Key Features of OCR Twenty First Century Science

One of the standout aspects of the OCR Twenty First Century Science course is its emphasis on contextual learning. Here's what makes it unique:

Real-World Applications

Unlike older science syllabi that often focus heavily on theoretical knowledge, OCR Twenty First Century Science consistently ties concepts back to real-life situations. For example, students might explore the science behind climate change, medical technologies, or renewable energy sources. This approach not only makes lessons more engaging but also helps learners appreciate the relevance of science in everyday life.

Focus on Scientific Skills

Practical work and investigative skills are a major component of the course. Students are encouraged to develop their ability to plan experiments, analyze data, and evaluate results critically. This practical

emphasis aligns well with the demands of higher education and scientific careers, fostering a hands-on understanding of how science works beyond textbooks.

Assessment Structure

The course incorporates a variety of assessment methods, including written exams and practical assessments, designed to test both knowledge and application. This balanced approach ensures students are not just memorizing facts but are truly grasping scientific concepts and their implications.

How OCR Twenty First Century Science Prepares Students for the Future

Science education today isn't just about knowing facts; it's about equipping students with the skills and mindset to navigate a technologically advanced and rapidly changing world. OCR Twenty First Century Science excels in this regard.

Encouraging Critical Thinking

Students are challenged to think critically about scientific information. For instance, they might evaluate the reliability of sources, consider ethical implications of scientific advancements, or debate the pros and cons of new technologies. This nurtures a more nuanced understanding of science as a tool for society.

Promoting STEM Careers

By making science relevant and interesting, the OCR course helps motivate students to pursue further studies and careers in STEM (Science, Technology, Engineering, and Mathematics). The focus on practical skills and up-to-date scientific knowledge gives learners a solid foundation for future specialization.

Inclusion and Accessibility

Another important aspect is the course's inclusivity. OCR has designed the curriculum to be accessible to a wide range of learners, including those who may find science challenging. Supporting materials and differentiated assessments help ensure all students can engage meaningfully with the content.

Resources and Study Tips for Success in OCR Twenty First Century Science

If you're preparing for OCR Twenty First Century Science exams, having the right resources and strategies can make all the difference.

Utilize Official OCR Resources

OCR provides a wealth of materials, including past papers, examiner reports, and specification documents. These resources are invaluable for understanding the exam format and the types of questions you'll encounter.

Create a Revision Plan

Given the breadth of topics covered, organizing your revision is key. Break down the syllabus into manageable chunks, focusing on one topic at a time. Incorporate regular review sessions to reinforce learning.

Practice Practical Skills

Don't underestimate the importance of practical work. Try to engage with experiments through school labs or home-based activities where safe and feasible. Familiarity with experimental methods and data analysis will boost your confidence and performance.

Make Use of Interactive Tools

Online platforms and apps designed for GCSE science can help you visualize complex concepts and test your knowledge interactively. Many students find that multimedia resources make learning more enjoyable and effective.

The Impact of Twenty First Century Science on Teaching Methods

Adopting the OCR Twenty First Century Science syllabus has influenced not just what students learn but also how teachers deliver lessons.

Encouraging Inquiry-Based Learning

Teachers are now more focused on facilitating inquiry rather than simply delivering content. This means encouraging students to ask questions, design experiments, and explore ideas collaboratively.

Integration of Technology

Modern classrooms often incorporate digital tools to enhance learning. For example, simulations and virtual labs allow students to experiment in ways not possible in traditional settings, broadening their understanding.

Emphasis on Cross-Disciplinary Links

Science doesn't exist in isolation, and this syllabus reflects that reality by integrating concepts from biology, chemistry, physics, and environmental science. This holistic approach helps students make connections and see the bigger picture.

Why OCR Twenty First Century Science Stands Out Among GCSE Options

With several science GCSE options available, OCR Twenty First Century Science distinguishes itself in a few important ways.

- **Relevance:** It addresses current scientific issues that matter to students and society.
- **Skill Development:** Prioritizes practical and analytical skills alongside knowledge acquisition.
- **Flexibility:** Offers both combined and separate science pathways to suit different learner needs.
- **Support:** Comprehensive teaching and revision resources support both educators and students.

For learners aiming to understand science in a meaningful context and build solid foundations for future study or careers, OCR Twenty First Century Science provides an excellent pathway.

In summary, OCR Twenty First Century Science is more than just a GCSE syllabus; it's a forward-thinking approach to science education that resonates with the challenges and opportunities of today's world. Emphasizing relevance, skills, and critical thinking, it prepares students not just to pass

exams but to appreciate and engage with science throughout their lives.

Frequently Asked Questions

What is OCR Twenty First Century Science?

OCR Twenty First Century Science is a suite of science qualifications offered by OCR (Oxford Cambridge and RSA Examinations) designed for secondary school students, focusing on practical scientific skills and understanding.

Which subjects are included in OCR Twenty First Century Science?

The OCR Twenty First Century Science suite includes Biology, Chemistry, Physics, and Combined Science courses.

How is OCR Twenty First Century Science assessed?

Assessment for OCR Twenty First Century Science typically includes a combination of written exams, practical assessments, and coursework depending on the specific course and level.

What makes OCR Twenty First Century Science different from other science GCSEs?

OCR Twenty First Century Science emphasizes real-world applications, practical scientific skills, and contemporary scientific issues to engage students and develop critical thinking.

Is OCR Twenty First Century Science suitable for all ability levels?

Yes, OCR offers different tiers within Twenty First Century Science courses to cater to varying student abilities, including Foundation and Higher levels.

Can OCR Twenty First Century Science help prepare students for A-level science?

Yes, the course builds a strong foundation in scientific principles and practical skills, which supports progression to A-level sciences.

Are there resources available to help students study OCR Twenty First Century Science?

Yes, OCR provides official textbooks, revision guides, past papers, and online resources to support student learning.

What practical skills are emphasized in OCR Twenty First Century Science?

The course emphasizes skills such as planning experiments, collecting and analyzing data, evaluating methods, and understanding scientific evidence.

How does OCR Twenty First Century Science incorporate current scientific developments?

The curriculum integrates contemporary scientific issues and discoveries to make learning relevant and highlight science's impact on society.

Where can teachers find support for delivering OCR Twenty First Century Science?

Teachers can access support through OCR's official website, including teaching resources, training events, schemes of work, and professional development materials.

Additional Resources

OCR Twenty First Century Science: A Comprehensive Review of the Contemporary Science Curriculum

ocr twenty first century science represents a significant shift in how science education is structured and delivered within the UK educational framework. Developed by the Oxford Cambridge and RSA Examinations (OCR) board, this curriculum aims to prepare students for the scientific challenges and opportunities of the modern era. By integrating contemporary scientific concepts with practical skills and critical thinking, OCR Twenty First Century Science responds to the evolving demands of both education and society.

As the landscape of science rapidly changes, with new discoveries and technological advancements emerging continuously, OCR Twenty First Century Science endeavors to equip learners not only with foundational knowledge but also with the capacity to apply scientific principles in real-world contexts. This article explores the curriculum's design, its pedagogical approach, and how it compares with other science courses, offering an analytical perspective on its strengths and areas for consideration.

Understanding OCR Twenty First Century Science

At its core, OCR Twenty First Century Science is a suite of GCSE qualifications designed to integrate biology, chemistry, and physics into a coherent and interconnected curriculum. Unlike traditional science courses that often separate disciplines into distinct silos, this program emphasizes the interrelation of scientific concepts, mirroring the interdisciplinary nature of modern scientific inquiry.

The course structure is typically divided into three pathways: Combined Science (Double Award), which covers all three sciences with an integrated approach; as well as separate GCSEs in Biology, Chemistry, and Physics for students opting for more specialized study. This flexibility enables schools

to tailor science education to the needs and interests of their students.

Curriculum Design and Content

OCR Twenty First Century Science is designed with a clear focus on contemporary scientific issues, technological innovations, and societal implications. Key themes span from genetics and environmental science to energy and forces, reflecting the real-world applications of science.

The curriculum also incorporates a strong emphasis on scientific literacy, encouraging students to critically evaluate evidence, understand scientific methodologies, and appreciate the ethical dimensions of scientific advancements. This approach aligns with modern educational goals that prioritize not just rote memorization but also the development of analytical skills.

Pedagogical Approach and Assessment

One of the distinguishing features of OCR Twenty First Century Science is its assessment strategy. The exams are structured to assess not only factual recall but also the application of knowledge in unfamiliar contexts. This includes problem-solving tasks, data analysis, and interpretation of experimental findings.

The practical component, often a challenging aspect of science education, is embedded within the course rather than being treated as a separate module. This integration ensures that hands-on scientific skills are developed continuously, preparing students for further education or careers in STEM fields.

Comparative Analysis: OCR versus Other Science GCSEs

In the competitive landscape of UK science GCSEs, OCR Twenty First Century Science stands alongside other prominent qualification boards such as AQA and Edexcel. Each board offers distinct approaches and curricular emphases, and understanding these differences is essential for educators and students making informed choices.

- **Interdisciplinary Focus:** OCR's integrated model contrasts with the more traditional separation of sciences found in some AQA and Edexcel courses. This integration can enhance conceptual understanding but may pose challenges for students who prefer compartmentalized learning.
- **Assessment Style:** OCR leans heavily on application and critical thinking, while other boards may emphasize content recall. This can influence teaching methods and student preparation.
- **Content Relevance:** The OCR curriculum's emphasis on twenty-first-century science topics—such as climate change and biotechnology—aligns well with current scientific discourse,

potentially increasing student engagement.

Overall, OCR's approach is often praised for its modernity and relevance but requires careful implementation to maximize student success.

Pros and Cons of OCR Twenty First Century Science

Every curriculum has its strengths and challenges, and OCR Twenty First Century Science is no exception. An analytical view highlights the following:

1. Pros:

- Integration of contemporary scientific themes enhances relevance.
- Focus on practical and analytical skills prepares students for STEM careers.
- Flexible pathways accommodate diverse student interests and abilities.
- Assessment style promotes deeper understanding beyond memorization.

2. Cons:

- Interdisciplinary approach may be challenging for some learners used to traditional methods.
- Demanding assessment requires strong support and teaching expertise.
- Some critics argue that the broad scope might limit depth in individual sciences.

Such considerations are vital for schools and educators when selecting the appropriate science curriculum.

The Role of OCR Twenty First Century Science in Modern Education

Beyond the classroom, OCR Twenty First Century Science aligns with broader educational goals aimed at fostering scientific literacy among the general population. In an era where science impacts policy, health, and the environment, equipping young people with a robust scientific foundation is more

critical than ever.

The curriculum's emphasis on twenty-first-century issues such as sustainable development, genetic engineering, and renewable energy underscores the responsibility of education systems to prepare students for ongoing societal debates. Moreover, the focus on scientific inquiry and evidence evaluation nurtures informed citizens capable of engaging with complex scientific information.

Schools adopting OCR Twenty First Century Science often report increased student motivation due to the curriculum's relevance and engaging content. Additionally, the skills developed through the course align well with further education pathways and employment sectors requiring analytical and problem-solving capabilities.

Impact on STEM Progression and Careers

As the UK strives to enhance STEM (Science, Technology, Engineering, Mathematics) participation, curricula like OCR Twenty First Century Science play a pivotal role. By fostering an early appreciation for scientific concepts and their applications, the course helps to bridge gaps between secondary education and higher-level STEM studies.

Data from educational reports suggest that students exposed to integrated and applied science curricula demonstrate higher retention rates in post-GCSE STEM subjects. The emphasis on practical skills and real-world contexts also improves readiness for vocational training and industry roles, particularly in emerging fields such as biotechnology and environmental science.

Future Directions and Curriculum Evolution

The rapid pace of scientific discovery means that curricula must evolve continually. OCR Twenty First Century Science has shown adaptability by incorporating new topics and refining assessment methods to maintain relevance. Looking ahead, further integration of digital technologies, data science, and interdisciplinary projects may characterize the next generation of science education.

Furthermore, increased collaboration between educators, scientists, and policymakers can enrich the curriculum, ensuring it remains responsive to societal needs and technological advancements. This iterative process will be essential to sustain the curriculum's effectiveness in preparing students for a complex and dynamic scientific landscape.

In conclusion, OCR Twenty First Century Science constitutes a forward-thinking approach to secondary science education, balancing content knowledge with critical skills and contemporary relevance. Its design and implementation reflect an understanding of science as a living discipline, interconnected and impactful, equipping students to navigate and contribute to the twenty-first-century world.

Ocr Twenty First Century Science

A revision guide that covers the core content of the OCR Science A (single award) specification, from the Twenty First Century Science Suite.

ocr twenty first century science: PISA Science 2006 Rodger W. Bybee, Barry McCrae, 2009 Comprehensive, thought-provoking, and indispensable, PISA Science 2006, provides educators with a top-down view of where we stand today in science education and what this means for students and educators.

ocr twenty first century science: Communicating European Research 2005 Michel Claessens, 2007-06-10 The book contains a series of 40 articles written by forward-thinking speakers who presented their findings at the Communicating European Research 2005 event which was organised by the European Commission in Brussels on 14-15 November 2005. This event was attended by well over 2,100 participants. The contents of this book clearly illustrate that a highly important element of research projects funded by the European Union is communication. Authors include scientists, journalists and communication professionals. The book covers the main aspects of science and technology communication today and addresses topical questions such as: Is science journalism necessary at all? Should communication become one of the basic skills of scientists, as compulsory as thinking, testing and experimenting? Should our schools of the future put scientific literacy at the top of the science curriculum? Do we need science critics? Does the coverage of science in the media reflect the choice of the editors or does it accurately mirror the public's interest? How does one capture the public's attention when promoting science on local, commercial or entertainment radio? Why would we need standards in science communication? How can we remove any obstacles to communication among researchers and between researchers? The book casts light on these issues and many others. It offers a selection of good practices and professional services to scientists and science communicators, and should help them design and carry out their communication activities with a European and international dimension.

ocr twenty first century science: Socio-scientific Issues in the Classroom Troy D. Sadler, 2011-05-11 Socio-scientific issues (SSI) are open-ended, multifaceted social issues with conceptual links to science. They are challenging to negotiate and resolve, and they create ideal contexts for bridging school science and the lived experience of students. This book presents the latest findings from the innovative practice and systematic investigation of science education in the context of socio-scientific issues. *Socio-scientific Issues in the Classroom: Teaching, Learning and Research* focuses on how SSI can be productively incorporated into science classrooms and what SSI-based education can accomplish regarding student learning, practices and interest. It covers numerous topics that address key themes for contemporary science education including scientific literacy, goals for science teaching and learning, situated learning as a theoretical perspective for science education, and science for citizenship. It presents a wide range of classroom-based research projects that offer new insights for SSI-based education. Authored by leading researchers from eight countries across four continents, this book is an important compendium of syntheses and insights for veteran researchers, teachers and curriculum designers eager to advance the SSI agenda.

ocr twenty first century science: Making it tangible. Learning outcomes in science education Sascha Bernholt, Knut Neumann, Peter Nentwig, 2012 One of the central features in current educational reforms is a focus on learning outcomes. Many countries have established or revised standards to describe what teachers are supposed to teach and students are expected to learn. More recently, the emphasis has shifted to considerations of how standards can be operationalized in order to make the outcomes of educational efforts more tangible. This book is the result of a symposium held in Kiel, that was arranged by two science education groups, one at the IPN (Leibniz-Institute for Science and Mathematics Education at the University of Kiel) in Germany and the other at the University of York, UK. The seminar brought together renowned experts from 12 countries with different notions of the nature and quality of learning outcomes. The aim was to clarify central conceptions and approaches for a better understanding among the international science education community. The book is divided into five parts. In Part A, the organizers set the scene, describing the rationale for arranging the symposium. Part B provides a broad overview

about different approaches, challenges, and pitfalls on the road to the clarification of meaningful and fruitful learning outcomes. The set of papers in Part C provides deep insights into different, although comparable approaches which aim to frame, to assess, and to promote learning and learning outcomes in science education. Smaller projects are presented as well as broad, coordinated national programs. The papers in Part D outline the individual historical development from different national perspectives, reflecting the deficits and problems that led to current reforms. Finally, a summary of the organizers analyses the conclusions from different vantage points.

ocr twenty first century science: International Handbook of Research in History, Philosophy and Science Teaching Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics education is, informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique, encyclopaedic handbook, Gerald Holton, Physics Department, Harvard University This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community Fabio Bevilacqua, Physics Department, University of Pavia

ocr twenty first century science: Valuing Assessment in Science Education: Pedagogy, Curriculum, Policy Deborah Corrigan, Richard Gunstone, Alister Jones, 2013-06-05 Assessment is a fundamental issue in research in science education, in curriculum development and implementation in science education as well as in science teaching and learning. This book takes a broad and deep view of research involving assessment in science education, across contexts and cultures (from whole countries to individual classrooms) and across forms and purposes (from assessment in the service of student learning to policy implications of system wide assessment). It examines the relationships between assessment, measurement and evaluation; explores assessment philosophies and practices in relation to curriculum and scientific literacy/learning; and details the relationships between assessment and science education policy. The third in a series, Valuing Assessment in Science Education has chapters from a range of international scholars from across the globe and staff from Monash University, King's College London and University of Waikato. The two previous books in the series examined research relevant to the re-emergence of values in science education and teaching across the spectrum of science education as well as across cultural contexts through the professional knowledge of science teaching. This third book now moves to examine different aspects of generating understanding about what science is learnt, how it is learnt, and how it is valued. Valuing Assessment in Science Education will appeal to all those with some engagement with and/or use of research in science education, including research students, academics, curriculum development agencies, assessment authorities, and policy makers. It will also be of interest to all classroom science teachers who seek to keep abreast of the latest research and development and thinking in their area of professional concern.

ocr twenty first century science: Science Teaching in Schools Great Britain: Parliament:

House of Lords: Science and Technology Committee, 2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England, focusing on the following issues: the take-up of science and mathematics at GCSE and A-level, the provision of careers advice to students, problems in the recruitment and retention of teachers, the quality of teaching methods and the role of continuing professional development. The Committee finds that effective science teaching in schools is essential, both in order to ensure a satisfactory general level of scientific literacy in society, and to enable the next generation of scientists and engineers to progress into higher education and beyond. It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age, and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma-based system for 14-19 year old students based on the International Baccalaureate. This would ensure that students receive a more rounded education and are not made to over-specialise before they are able to see the merits of studying science and mathematics. Concerns are also raised about the shortage of science teachers, particularly specialist physics and chemistry teachers, the quality of careers advice in schools, and the importance of practical science in schools.

ocr twenty first century science: *Teaching STEM in the Secondary School* Frank Banks, David Barlex, 2014-07-17 The skills, knowledge and understanding of the subjects involved in STEM (Science, Technology, Engineering and Mathematics) are vital for all young people in an increasingly science- and technology-driven society. This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding, achievement and motivation. By reaching outside their own classroom, teachers can collaborate across subjects to enrich learning and help students relate school science, technology and maths to the wider world. Packed with ideas and practical details for teachers of STEM subjects, this book: considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom, laboratory and workshop can support STEM for all students addresses the practicalities of introducing, organising and sustaining STEM-related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long-term. This timely new text is essential reading for trainee and practising teachers who wish to make the learning of Science, Technology, Engineering and Mathematics an interesting, motivating and exciting experience for their students.

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ocr twenty first century science: *Oxford EAP Elementary/A2 Student Book* Edward de Chazal, John Hughes, 2015-08-13 Oxford English for Academic Purposes offers a specialist course covering listening, speaking and reading in key areas of academic life such as lectures, presentations and textbooks. The course is consistent with levels A2 to C1 of the Common European Frame of Reference for the teaching of foreign languages. Great downloadable resources to support you when using Oxford English for Academic Purposes can be found at <https://elt.oup.com/student/oxfordeap/>

ocr twenty first century science: *The School Science Review* , 2007

ocr twenty first century science: *The Palgrave Handbook of Twentieth and Twenty-First Century Literature and Science* Neel Ahuja, Monique Allewaert, Lindsey Andrews, Gerry Canavan, Rebecca Evans, Nihad M. Farooq, Erica Fretwell, Nicholas Gaskill, Patrick Jagoda, Erin Gentry Lamb, Jennifer Rhee, Britt Rusert, Matthew A. Taylor, Aarthi Vadde, Priscilla Wald, Rebecca Walsh, 2020-11-26 This handbook illustrates the evolution of literature and science, in collaboration and contestation, across the twentieth and twenty-first centuries. The essays it gathers question the charged rhetoric that pits science against the humanities while also demonstrating the ways in which the convergence of literary and scientific approaches strengthens cultural analyses of colonialism, race, sex, labor, state formation, and environmental destruction. The broad scope of this collection explores the shifting relations between literature and science that have shaped our own cultural moment, sometimes in ways that create a problematic hierarchy of knowledge and other times in ways that encourage fruitful interdisciplinary investigations, innovative modes of knowledge production, and politically charged calls for social justice. Across units focused on epistemologies, techniques and methods, ethics and politics, and forms and genres, the chapters address problems ranging across epidemiology and global health, genomics and biotechnology, environmental and energy sciences, behaviorism and psychology, physics, and computational and surveillance technologies. Chapter 19 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

ocr twenty first century science: *Teaching Science* Tony Liversidge, Matt Cochrane, Bernard Kerfoot, Judith Thomas, 2009-06-30 Reflective practice is at the heart of effective teaching, and this book helps you develop into a reflective teacher of Science. Everything you need is here: guidance on developing your analysis and self-evaluation skills, the knowledge of what you are trying to achieve and why, and examples of how experienced teachers deliver successful lessons. It includes advice about obtaining your first teaching post, and about continuing professional development. The book shows you how to plan creative lessons, how to make good use of resources and how to assess pupils' progress effectively. Each chapter contains points for reflection, which encourage you to break off from your reading and think about the challenging questions that you face as a new teacher. The book comes with access to a companion website, www.sagepub.co.uk/secondary, where you will find: - Videos of real lessons so you can see the skills discussed in the text in action - Links to a range of sites that provide useful additional support - Extra planning and resource materials. If you are training to teach science this book will help you to improve your classroom performance, by providing you with practical advice, but also by helping you to think in depth about the key issues. It also supplements guidance on undertaking a research project with examples of the research evidence that is needed in academic work at Masters level, essential for anyone undertaking an M-level PGCE.

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ocr twenty first century science: Specimen Science Holly Fernandez Lynch, Barbara E. Bierer, I. Glenn Cohen, Suzanne Marie Rivera, 2017-10-06 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.

ocr twenty first century science: *Health Sciences Collection Management for the Twenty-First Century* Susan K. Kendall, 2018-01-15 Selected as a 2025 Doody's Core Title Health Sciences Collection Management for the Twenty-First Century is intended for those with any level of experience in health sciences collection management. This book from the authoritative Medical Library Association starts with the context of health sciences publishing and covers the foundations of selection, budgeting, and management. It won't tell new librarians what to buy but will give them background and criteria that should go into their selections. However, the focus of this book is not only on best practices but also on the big picture and the deeper changes in the field that affect decision making. Subjects not always covered in many collection development textbooks such marketing or accessibility are included because they are part of the larger collections landscape. Chapter contributors bring their own perspectives to the topics. Stories of different libraries' experiences bring interesting topics to the forefront in practical, specific, and timely detail. While whole books have been written that go into some of these topics more in depth on their own, the treatment of each topic here focuses on the unique perspective and concerns of the collection manager.

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