

**3. ELABORATION OF CONTENT FOR GRADE 12 (CAPS) FROM 2014**

A topic-wise elaboration follows, indicating the scope and depth of each topic. Note that the content elaborated does not attempt to address all four cognitive levels. It merely outlines the basic content that needs to be covered, but this content can be assessed at all four cognitive levels.

DNA: The Code of Life Paper 2: 27 marks	Term 1	2½ weeks
CONTENT	ELABORATION	
<b>Introduction</b>	<input type="checkbox"/> Revise the structure of the cell with an emphasis on the ribosome, cytoplasm and the parts of the nucleus. <input type="checkbox"/> State that nucleic acids consist of nucleotides. <input type="checkbox"/> Name the two types of nucleic acids.	
<b>DNA: location, structure and functions</b>	<input type="checkbox"/> State where DNA is located, as follows: <ul style="list-style-type: none"> <li>• Makes up the genes on chromosomes (nuclear DNA)</li> <li>• Present in mitochondria (mitochondrial DNA)</li> </ul> <input type="checkbox"/> Describe the history of the discovery of the DNA molecule (Watson, Crick, Franklin & Wilkins). <input type="checkbox"/> Name the three components of a DNA nucleotide as follows: <ul style="list-style-type: none"> <li>• Nitrogenous bases linked by weak hydrogen bonds               <ul style="list-style-type: none"> <li>- Four nitrogenous bases of DNA: adenine (A), thymine (T), cytosine (C), guanine (G)</li> <li>- Pairing of bases in DNA occur as follows: A : T and G : C</li> </ul> </li> <li>• Sugar portion (deoxyribose in DNA)</li> <li>• Phosphate portion</li> </ul> <input type="checkbox"/> State that the natural shape of the DNA molecule is a double helix. <input type="checkbox"/> State the functions of DNA in terms of the following: <ul style="list-style-type: none"> <li>• Sections of DNA forming genes carry hereditary information</li> <li>• DNA contains coded information for protein synthesis</li> </ul>	
<b>DNA replication</b>	<input type="checkbox"/> Describe the following aspects of DNA replication: <ul style="list-style-type: none"> <li>• When in the cell cycle it takes place</li> <li>• Where in the cell it takes place</li> <li>• How DNA replication takes place (names of enzymes not required)</li> <li>• The significance of DNA replication</li> </ul>	
<b>DNA profiling</b>	<input type="checkbox"/> State what a <i>DNA profile</i> / <i>DNA 'fingerprint'</i> is. <input type="checkbox"/> State the various uses of DNA profiles. <input type="checkbox"/> State views for and against the use of DNA profiling.	
<b>RNA: location, structure and functions</b>	<input type="checkbox"/> State the location of RNA as follows: <ul style="list-style-type: none"> <li>• mRNA is formed in the nucleus and functions on the ribosome.</li> <li>• tRNA is located in the cytoplasm.</li> </ul> <input type="checkbox"/> State that RNA plays a role in protein synthesis. <input type="checkbox"/> Describe the structure of RNA as follows: <ul style="list-style-type: none"> <li>• A single-stranded molecule consisting of nucleotides</li> <li>• Each nucleotide is made up of a sugar (ribose), phosphate and a nitrogen base</li> <li>• Four nitrogenous bases of RNA: adenine (A), uracil (U), cytosine (C), guanine (G)</li> </ul>	
<b>Comparison of DNA and RNA</b>	<input type="checkbox"/> List similarities between DNA and RNA. <input type="checkbox"/> Tabulate differences between DNA and RNA.	

# Life Sciences Scope Exam 2014

**Cezary Kochalski, Paweł  
Chudziński, Jarosław Kubiak, Grzegorz  
Mikołajewicz, Andrzej Niemiec, Jarosław  
Nowicki, Piotr Ratajczak, Agata  
Sierpińska-Sawicz, Aleksandra  
Szulczewska-Remi, Sławomir Zerbst**

## **Life Sciences Scope Exam 2014:**

**"Code of Massachusetts regulations, 2014"** ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *Trends in Teaching Experimentation in the Life Sciences* Nancy J. Pelaez,Stephanie M. Gardner,Trevor R. Anderson,2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) **iCEER2014-McMaster Digest** Mohamed Bakr,Ahmed Elsharabasy,2014-11-18 International Conference on Engineering Education and Research **Technologies in Biomedical and Life Sciences Education** Harry J. Witchel,Michael W. Lee,2022-06-24 This contributed volume focuses on understanding the educational strengths and weaknesses of mediated content including media as a learning supplement in comparison to traditional face to face learning Each chapter includes research on and a broad brush summary of approaches to combining life sciences education with educational technologies The chapters are organized into four main sections each of which focuses on a key question regarding the consequences of incorporating media into education In this regard the authors highlight how educational technology is both a bridge and barrier to student access and inclusivity Further they address the ongoing discussion as to whether students need to be present for lectures and on how having agency in their own learning can improve both retention and conceptual understanding To link the content to current events the authors also shed light on the impact that the COVID 19 pandemic is having on the continuity of educational programs and on the growing importance of educational technologies Consequently the book offers life science educators valuable guidance on the technologies already available and an outlook on what is yet to come UNESCO science report UNESCO,2015-11-09 There are fewer grounds today than in the past to deplore a North South divide in research and innovation This is one of the key findings of the UNESCO Science Report towards 2030 A large number of countries are now incorporating science technology and innovation in their national

development agenda in order to make their economies less reliant on raw materials and more rooted in knowledge Most research and development R D is taking place in high income countries but innovation of some kind is now occurring across the full spectrum of income levels according to the first survey of manufacturing companies in 65 countries conducted by the UNESCO Institute for Statistics and summarized in this report For many lower income countries sustainable development has become an integral part of their national development plans for the next 10 20 years Among higher income countries a firm commitment to sustainable development is often coupled with the desire to maintain competitiveness in global markets that are increasingly leaning towards green technologies The quest for clean energy and greater energy efficiency now figures among the research priorities of numerous countries Written by more than 50 experts who are each covering the country or region from which they hail the UNESCO Science Report towards 2030 provides more country level information than ever before The trends and developments in science technology and innovation policy and governance between 2009 and mid 2015 described here provide essential baseline information on the concerns and priorities of countries that could orient the implementation and drive the assessment of the 2030 Agenda for Sustainable Development in the years to come

*Research Handbook on Intellectual Property and the Life Sciences* Duncan Matthews, Herbert Zech, 2017-06-30

Intellectual property IP is a key component of the life sciences one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective

**Innovation, Regional Development and the Life Sciences** Kean Birch, 2016-10-14 The life sciences is an industrial sector that covers the development of biological products and the use of biological processes in the production of goods services and energy This sector is frequently presented as a major opportunity for policy makers to upgrade and renew regional economies leading to social and economic development through support for high tech innovation Innovation Regional Development and the Life Sciences analyses where innovation happens in the life sciences why it happens in those places and what this means for regional development policies and strategies Focusing on the UK and Europe its arguments are relevant to a variety of countries and regions pursuing high tech innovation and development policies The book's theoretical approach incorporates diverse geographies e g global national and regional and political economic forces e g discourses governance and finance in order to understand where innovation happens in the life sciences where and how value circulates in the life sciences and who captures the value produced in life sciences innovation This book will be of interest to researchers students and policy

makers dealing with regional local economic development      *Renegotiating Disciplinary Fields in the Life Sciences* Alessandro Minelli, 2021-02-24 Recent and ongoing debates in biology and the philosophy of biology reveal a widespread dissatisfaction with traditional explanatory frameworks There are also problems with the current definitions or circumscriptions of key concepts such as gene species and homology and even of whole disciplinary fields within the life sciences e g developmental biology These contrasting views are arguably a symptom of the need to revisit traditional unchallenged partitions between the specialist disciplines within the life sciences In the diversity of topics addressed and approaches to move beyond the current disciplinary organization the five essays in this volume will hopefully stimulate further exploration towards an improved articulation of life sciences      *Molecular Diagnostics* George P. Patrinos, Wilhelm Ansorge, Phillip B. Danielson, 2016-10-27 *Molecular Diagnostics* Third Edition focuses on the technologies and applications that professionals need to work in develop and manage a clinical diagnostic laboratory Each chapter contains an expert introduction to each subject that is next to technical details and many applications for molecular genetic testing that can be found in comprehensive reference lists at the end of each chapter Contents are divided into three parts technologies application of those technologies and related issues The first part is dedicated to the battery of the most widely used molecular pathology techniques New chapters have been added including the various new technologies involved in next generation sequencing mutation detection gene expression etc mass spectrometry and protein specific methodologies All revised chapters have been completely updated to include not only technology innovations but also novel diagnostic applications As with previous editions each of the chapters in this section includes a brief description of the technique followed by examples from the area of expertise from the selected contributor The second part of the book attempts to integrate previously analyzed technologies into the different aspects of molecular diagnostics such as identification of genetically modified organisms stem cells pharmacogenomics modern forensic science molecular microbiology and genetic diagnosis Part three focuses on various everyday issues in a diagnostic laboratory from genetic counseling and related ethical and psychological issues to safety and quality management Presents a comprehensive account of all new technologies and applications used in clinical diagnostic laboratories Explores a wide range of molecular based tests that are available to assess DNA variation and changes in gene expression Offers clear translational presentations by the top molecular pathologists clinical chemists and molecular geneticists in the field      *Research Handbook on Patent Law and Theory* Toshiko Takenaka, 2019 This significantly updated second edition of the *Research Handbook on Patent Law* provides comprehensive coverage of new research for patent protection in three major jurisdictions the United States Europe and Japan      *The elephant and the dragon in contemporary life sciences* Joy Y. Zhang, Saheli Datta Burton, 2022-03-15 This book provides a powerful diagnosis of why the global governance of science struggles in the face of emerging powers Through unpacking critical events in China and India over the past twenty years it demonstrates that the subversiveness assumed in

the two countries rise in the life sciences reflects many of the regulatory challenges that are shared worldwide. It points to a decolonial imperative for science governance to be responsive and effective in a cosmopolitan world. By highlighting epistemic injustice within contemporary science, the book extends theories of decolonisation. *OECD Health Policy Studies: Health Workforce Policies in OECD Countries: Right Jobs, Right Skills, Right Places* OECD, 2016-03-15. This publication reviews key trends and new policy priorities in relation to the health workforce in OECD countries following the economic crisis. Regulatory Protection in the Pharmaceutical and Life Science Industries Żaneta Zemła-Pacud, 2025-06-09. This book examines the EU framework for regulatory protection in life science industries with a particular focus on the pharmaceutical sector. Żaneta Zemła-Pacud discusses the rules governing regulatory exclusivities and rewards for innovative life science products and the regulatory data underlying them. The author presents the framework's meaning for the sector as a sui generis instrument of protection of Intellectual Property and provides an up-to-date analysis of the legislation driving EU reform of pharmaceutical regulation. Improving K-12 STEM Education Outcomes through Technological Integration Urban, Michael J., Falvo, David A., 2015-11-12. The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice. Integrating digital technologies at the elementary and secondary levels helps to enrich the students' learning experience and maximize competency in the areas of science, technology, engineering, and mathematics. *Improving K-12 STEM Education Outcomes through Technological Integration* focuses on current research surrounding the effectiveness, performance, and benefits of incorporating various technological tools within science, technology, engineering, and mathematics classrooms. Focusing on evidence-based approaches and current educational innovations, this book is an essential reference source for teachers, teacher educators, and professionals interested in how emerging technologies are benefiting teaching and/or learning efficacy. Towards Inclusion of All Learners through Science Teacher Education Michele Koomen, Sami Kahn, Christopher L. Atchison, Tiffany A. Wild, 2018-05-16. *Towards Inclusion of All Learners through Science Teacher Education* serves as an indispensable resource for teachers and teacher educators wishing to understand how to educate students with exceptionalities in science. This book begins with the voices and stories of the experts: current and former K-12 students with disabilities sharing their experiences in science education classrooms. The voices of students with disabilities are then connected to the work of leading experts in the area of science education for individuals with disabilities in an effort to address the goals of national reform documents by ensuring rigorous science experiences for all students. It is written in a highly accessible and practical manner, making it ideal for all educators, including pre-service and in-service teachers, teacher educators, researchers, and curriculum developers. **Green Controlling and Finance. Case Studies** Cezary Kochalski, Paweł Chudziński, Jarosław Kubiak, Grzegorz Mikołajewicz, Andrzej Niemiec, Jarosław Nowicki, Piotr Ratajczak, Agata Sierpińska-Sawicz, Aleksandra Szulczewska-Remi, Sławomir Zerbst, 2016-01-01. This book exemplifies activities undertaken by selected enterprises towards

resolving significant problems related to green controlling and finance It presents how the analysed enterprises employ or may employ green controlling for coordination of initiatives in environmental and social dimensions The authors focused primarily on the financial angle of the solutions regarding environmental and social aspects within the scope of corporate strategy value creation financial planning budgeting indicator analysis reporting cost management investment appraisal risk analysis and estimation of capital cost The analyses performed enabled the researchers to prove that elements of green controlling connected with finance are present in the discussed enterprises and may serve as examples of good practices for other business entities striving to increase enterprise value in the long run

*Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges* Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives

Using 21st Century Science to Improve Risk-Related Evaluations National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Incorporating 21st Century Science into Risk-Based Evaluations, 2017-02-16 Over the last decade several large scale United States and international programs have been initiated to incorporate advances in molecular and cellular biology omics technologies analytical methods bioinformatics and computational tools and methods into the field of toxicology Similar efforts are being pursued in the field of exposure science with the goals of obtaining more accurate and complete exposure data on individuals and populations for thousands of chemicals over the lifespan predicting exposures from use data and chemical property information and translating exposures between test systems and humans Using 21st Century Science to Improve Risk Related Evaluations makes recommendations for integrating new scientific approaches into risk based evaluations This study considers the scientific advances that have occurred following the publication of the NRC reports Toxicity Testing in the 21st Century A Vision and a Strategy and Exposure Science in the 21st Century A Vision and a Strategy Given the various ongoing lines of investigation and new data streams that have emerged this publication proposes how best to integrate and use the emerging results in evaluating chemical risk Using 21st Century Science to Improve Risk Related Evaluations considers whether a new paradigm is needed for data validation how to integrate the divergent data streams how uncertainty might need to be characterized and how best

to communicate the new approaches so that they are understandable to various stakeholders

Life and Moral Education in Greater China John Chi-Kin Lee, Stephen Yam-wing Yip, Raymond Ho-Man Kong, 2021-03-29 Arguing for life moral and values education as a bedrock for the original goals of school education this monograph explores how life and values education is conceptualised and imparted in Greater China Under a globalized transnational and technological world where there has been an increase in people's mobility in information and cultural exchanges there is also a growing emphasis on personal and professional ethics Against this context life moral and values education has gained attention for its impact on shaping students characters as future citizens However the cultivation of these values is made deeply diversified and complex by varying interpretations of life education and values education across societies given that different societies are influenced by different socio cultural traditions educational ideologies and religious beliefs The means and approaches towards life education also vary vastly from formal school subjects school based programmes as well as teachers and peers role modelling community services extra curricular activities school discipline charity work pastoral care and school ethos Recognising this inherent diversity and complexity in the approach to and the dissemination of life education the contributors to this volume survey the practice of life education in Greater China so far suggesting that life education is most effective when it is diversified dynamic and developmental across contexts This book will provide the opportunity for engaging in important and serious debates about the future and the values that will underpin it and will prove of special interest to scholars and practitioners working on education policies curriculum development and teacher education in Greater China

**Blockchain in Life Sciences** Wendy Charles, 2022-08-30 This book highlights the latest advances on the implementation and adaptation of blockchain technologies in real world scientific biomedical and data applications It presents rapid advancements in life sciences research and development by applying the unique capabilities inherent in distributed ledger technologies The book unveils the current uses of blockchain in drug discovery drug and device tracking real world data collection and increased patient engagement used to unlock opportunities to advance life sciences research This paradigm shift is explored from the perspectives of pharmaceutical professionals biotechnology start ups regulatory agencies ethical review boards and blockchain developers This book enlightens readers about the opportunities to empower and enable data in life sciences



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