



GRADE 12 LIFE SCIENCES MARCH TEST

SECTION A

QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1.1-1.1.4) on your answer sheet, for example 1.1.5. D.

1.1.1 Base that pairs with Uracil.

- A Adenine
- B Cytosine
- C Guanine
- D Thymine

1.1.2 Bond found between amino acids in a protein.

- A Tripeptide bond
- B Polypeptide bond
- C Phosphodiester bond
- D Hydrogen bond

1.1.3 THREE adjacent bases found on a DNA or m-RNA molecule...

- A Anticodon
- B Codon
- C Replicon
- D Replicon

1.1.4 Structure where sperm matures.

- A Testis
- B Epididymis
- C Vas deferens
- D Seminal vesicle

[1x2=2]

1.2 Give the correct BIOLOGICAL TERM for each of the following statements.
Write the name of the biological structure in CAPITAL LETTERS.

- 1.1 The process by which a cell divides to form two daughter cells.
- 1.2 The single strand of a nucleic acid molecule that is complementary to the template strand.
- 1.3 The type of nucleic acid that occurs as a single strand.
- 1.4 The single strand of a nucleic acid molecule that is complementary to the template strand.
- 1.5 The natural structure of a DNA molecule.
- 1.6 The process by which a cell divides to form two daughter cells.

[1x6=6]

1.3 Indicate whether each of the statements in COLUMN I applies to A ONLY, B ONLY, BOTH A and B or NONE of the items in COLUMN II. Write **A** ONLY, B ONLY, BOTH A and B or NONE next to the QUESTION NUMBER (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Released by the pituitary gland	A. Progesterone B. Oestrogen
1.3.2	Thymine is used.	A. Replication of DNA B. Transcription of DNA
1.3.3	Contains RNA	A. Mitochondrion B. Nucleolus

[3x2=6]

(TOTAL SECTION A: 28)

Life Science Paper 1 Grade 12 March 2014

Janelle Scott



Life Science Paper 1 Grade 12 March 2014:

Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy, Ivan Gill, 2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts Journal of the National Cancer Institute ,2014 *Sustaining Human Progress* Khalid Malik,2014 Most poeple in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives *Daily Graphic* Ransford Tetteh,2014-03-24 The Wiley Handbook of Learning Technology Nick Rushby, Dan Surry, 2016-02-23 The Wiley Handbook of Learning Technology is an authoritative and up to date survey of the fast growing field of learning technology from its foundational theories and practices to its challenges trends and future developments Offers an examination of learning technology that is equal parts theoretical and practical covering both the technology of learning and the use of technology in learning Individual chapters tackle timely and controversial subjects such as gaming and simulation security lifelong learning distance education learning across educational settings and the research agenda Designed to serve as a point of entry for learning technology novices a comprehensive reference for scholars and researchers and a practical guide for education and training practitioners Includes 29 original and comprehensively referenced essays written by leading experts in instructional and educational technology from around the world **The Schenley Experiment** Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh s first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped

out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school. Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh, officials closed the school in 2008 citing over 50 million in necessary renovations, a controversial event that captured national attention. Schenley alumnus Jake Oresick tells this story through interviews, historical documents, and hundreds of first person accounts drawn from a community indelibly tied to the school. A memorable important work of local and educational history, his book is a case study of desegregation, magnet education, and the changing nature and legacies of America's oldest public schools.

Early Engineering Learning Lyn English, Tamara Moore, 2018-05-29 This book addresses engineering learning in early childhood spanning ages 3 to 8 years. It explores why engineering experiences are important in young children's overall development and how engineering is a core component of early STEM learning, including how engineering education links and supports children's existing experiences in science, mathematics, and design and technology both before school and in the early school years. Promoting STEM education across the school years is a key goal of many nations with the realization that building STEM skills required by societies takes time and needs to begin as early as possible. Despite calls from national and international organizations, the inclusion of engineering based learning within elementary and primary school programs remains limited in many countries. Engineering experiences for young children in the pre school or early school years has received almost no attention even though young children can be considered natural engineers. This book addresses this void by exposing what we know about engineering for young learners including their capabilities for solving engineering based problems and the few existing programs that are capitalising on their potential.

The Omega Principle Paul Greenberg, 2018-07-10 By the bestselling author of *Four Fish* and *American Catch*, an eye opening investigation of the history, science, and business behind omega-3 fatty acids, the miracle compound whose story is intertwined with human health and the future of our planet. Omega-3 fatty acids have long been celebrated by doctors and dieticians as key to a healthy heart and a sharper brain. In the last few decades that promise has been encapsulated in one of America's most popular dietary supplements. Omega-3s are today a multi billion dollar business and sales are still growing apace even as recent medical studies caution that the promise of omega-3s may not be what it first appeared. But a closer look at the omega-3 sensation reveals something much deeper and more troubling. The miracle pill is only the latest product of the reduction industry, a vast global endeavor that over the last century has boiled down trillions of pounds of marine life into animal feed, fertilizer, margarine, and dietary supplements. The creatures that are the victims of that industry seem insignificant to the untrained eye but turn out to be essential to the survival of whales, penguins, and fish of all kinds, including many that we love to eat. Behind these tiny molecules is a big story of the push and pull of science and business, the fate of our oceans in a human dominated age, the explosion of land food at the expense of healthier and more sustainable seafood, of the human quest for health and long life at all costs. James Beard Award winning author Paul

Greenberg probes the rich and surprising history of omega 3s from the dawn of complex life when these compounds were first formed to human prehistory when the discovery of seafood may have produced major cognitive leaps for our species and on to the modern era when omega 3s may point the way to a bold new direction for our food system With wit and boundless curiosity Greenberg brings us along on his travels from Peru to Antarctica from the Canary Islands to the Amalfi Coast to reveal firsthand the practice and repercussions of our unbalanced way of eating Rigorously reported and winningly told The Omega Principle is a powerful argument for a more deliberate and forward thinking relationship to the food we eat and the oceans that sustain us *Farmers' Review* ,1886

Soil to Foil Saleem Ali,2023-05-23 Aluminum is the most abundant metal in the earth's crust It is also ubiquitous in the modern world from aircraft to soda cans A dizzying number of consumer and industrial products employ aluminum typically alloyed because of its availability versatility and malleability Today how efficiently we use and reuse aluminum is vital to addressing key environmental challenges and understanding humanity's fraught relationship with the earth Soil to Foil tells the extraordinary story of aluminum Saleem H Ali reveals its pivotal role in the histories of scientific inquiry and technological innovation as well as its importance to sustainability He offers compelling portraits of the scientists and innovators who discovered new uses for this remarkable element ranging from chemistry and geoscience to engineering and industrial design Ali argues that aluminum exemplifies broader lessons about stewardship of nonrenewable resources its seeming abundance has given rise to wasteful and destructive practices Soil to Foil follows aluminum's path along the supply chain from extraction to production consumption to recycling Ali explores the ecological damage at mine sites and visits affected communities seeking to restore the land He foregrounds the possibilities for more sustainable industrial practices emphasizing how product design can incorporate eventual reuse and recycling Ultimately Soil to Foil shows that the story of aluminum's use and misuse helps us rethink how to sustainably manage the resources of our planet

Pennsylvania Government and Politics Thomas J. Baldino,Paula A. Duda Holoviak,2024-03-12 This book provides a comprehensive examination of the Keystone State's formal and informal political institutions and players past and present and elucidates the place each holds in governing the commonwealth today Covering a period of more than three hundred years this volume presents a clear and succinct overview of the commonwealth's political history culture and geography interactions between office holders civil servants special interest groups and the media policy development and implementation how laws are created enacted and enforced hierarchy and interaction among state county local and special district government bodies and officials tax collection and disbursement and the political upheaval in the wake of the COVID 19 pandemic and the 2020 presidential election Featuring practical appendixes and interviews with current and past office holders bureaucrats party leaders and political journalists this astute and informative book is an indispensable tool for understanding politics in the Keystone State

Women in Science Now Lisa M. P. Munoz,2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Women

working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

Resources in Education ,1990

Rare Earth Frontiers Julie M. Klinger,2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation

Handbook of Education Policy Research Janelle Scott,2025-07-17 The second edition of the Handbook of Education Policy Research the largest volume published in AERA s history addresses a variety of policy and contextual issues in early childhood K 12 and postsecondary education that have received extensive empirical attention during the past 15 years With the pandemic and social turmoil as a backdrop the editors build on the breadth and depth of the first edition while expanding the scope of the project to include subjects methods theories and analyses that have contributed powerfully to the study of education policy and politics in the 2010s and 2020s The field has become more comprehensive and inclusive and the authors represent a diversity of racial ethnic and gender identities and intellectual and disciplinary orientations Most chapters come from multiple authors reflecting the multi sourced development of research in education policy since the first volume was published This compilation consists of 70

chapters and nine commentaries that map past present and future directions of the field and richly attend to critical issues of interest to students researchers policy makers and practitioners

10 to 25 David Yeager,2024-08-06 NATIONAL BESTSELLER Acclaimed developmental psychologist David Yeager reveals the new science of motivating young people ages ten through twenty five in this groundbreaking book that is a must read for managers parents educators coaches and mentors everywhere Required reading for anyone who aspires to be a wise influence on the young people they care about Angela Duckworth One of the most fascinating and important books of the past decade It will change millions of lives Carol Dweck This engaging data driven book is filled with practical insights Adam Grant Imagine a world in which Gen Xers millennials and boomers interact with young people in ways that leave them feeling inspired enthusiastic and ready to contribute rather than disengaged outraged or overwhelmed That world may be closer than you think In this book based on cutting edge research psychologist David Yeager explains how to stop fearing young people s brains and hormones and start harnessing them Neuroscientists have discovered that around age ten puberty spurs the brain to crave socially rewarding experiences such as pride admiration and respect and to become highly averse to social pain such as humiliation or shame As a result young people are subtly reading between the lines of everything we say trying to interpret the hidden implications of our words to find out if we are disrespecting or honoring them Surprisingly this sensitivity to status and respect continues into the mid twenties 10 to 25 helps adults develop an ear for the difference between the right and wrong way to respect young people and avoid frustrating patterns of miscommunication and conflict Yeager explains how to adopt what he terms the mentor mindset which is a leadership style that s attuned to young people s need for status and respect Anyone can adopt the mentor mindset by following a few highly effective and easy to learn practices such as validating young people s perspectives rather than dismissing them asking them questions rather than telling them what to do being transparent about your beliefs and goals rather than assuming that they will accurately guess your thoughts and holding them to high standards rather than coddling them Yeager s scientific experiments have shown these practices reduce a wide variety of behavior problems including school dropout unhealthy eating stress purposelessness mental health problems and more One of the biggest misconceptions about mentoring is that it takes up too much time On the contrary those who use the mentor mindset end up with more time Through back and forth conversations young people feel empowered and managers can transfer responsibility to them Young people in this age group are poised to learn grow and accomplish incredible things if only we can tap into the basic neurobiological systems that drive their motivation and behavior An essential read for anyone who interacts with young people 10 to 25 is a groundbreaking book that offers long term strategies to help nurture well adjusted independent accomplished young people who contribute to society in positive ways all while making our own lives easier

The Power of Citizen Seismology: Science and Social Impacts Remy Bossu,Kate Huihsuan Chen,Wen-Tzong Liang,2021-01-04

Music Education for Social Change Juliet Hess,2019-05-22 Music Education for Social Change

Constructing an Activist Music Education develops an activist music education rooted in principles of social justice and anti oppression Based on the interviews of 20 activist musicians across the United States and Canada the book explores the common themes perceptions and philosophies among them positioning these activist musicians as catalysts for change in music education while raising the question amidst racism and violence targeted at people who embody difference how can music education contribute to changing the social climate Music has long played a role in activism and resistance By drawing upon this rich tradition educators can position activist music education as part of a long term response to events as a crucial initiative to respond to ongoing oppression and as an opportunity for youth to develop collective expressive and critical thinking skills This emergent activist music education like activism pushing toward social change focuses on bringing people together expressing experiences and identifying and challenging oppressions Grounded in practice with examples integrated throughout the text Music Education for Social Change is an imperative and urgent consideration of what may be possible through music and music education

Scientific American ,1885 Monthly magazine devoted to topics of general scientific interest

Sustainability in the Mineral and Energy Sectors Sheila Devasahayam,Kim Dowling,Manoj K. Mahapatra,2016-09-15 Sustainable practices within the mining and energy sectors are assuming greater significance due to uncertainty and change within the global economy and safety security and health concerns This book examines sustainability issues facing the mining and energy sectors by addressing six major themes Mining and Mineral Processing Metallurgy and Recycling Environment Energy Socioeconomic and Regulatory and Sustainable Materials and Fleets Emphasizing an integrated transdisciplinary approach it deliberates on optimizing mining productivity and energy efficiency and discusses integrated waste management practices It discusses risk management cost cutting and integration of sustainable practices for long term business value It gives a comprehensive outlook for sustainable mineral futures from academic and industry perspectives covering mine to mill optimization waste risk and water management improved efficiencies in mining tools and equipment and performance indicators for sustainable developments It covers how innovation and research underpin management of natural resources including sustainable carbon management Focuses on mining and mineral processing metallurgy and recycling the environment energy socioeconomic and regulatory issues and sustainable materials and fleets Describes metallurgy and recycling and uses economic environmental and social parameter analyses to identify areas for improvement in iron steel aluminium lead zinc copper and gold production Discusses current research on mining performance indicators for sustainable development sustainability in mining equipment risk and safety management and renewable energy resources Covers alternative and conventional energy sources for the mineral sector as well water treatment and remediation and energy sustainability in mining Provides an overview of sustainable carbon management Offers an interdisciplinary approach with international focus

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