

- 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 and 1.3.5) on your answer sheet.

COLUMN I	COLUMN II
1.3.1 Effects of deforestation	A reduced absorption of carbon dioxide B oxygen deficiency in water
1.3.2 Disadvantages of dams	A increase seasonal flooding B decreased loss of biodiversity
1.3.3 Causes of ozone depletion	A increase in carbon dioxide concentration in the atmosphere B CFC's
1.3.4 Effects of desertification	A reduced productivity B poverty in local communities
1.3.5 Advantages of GM foods	A some crops are resistant to pests B vegetables have a longer shelf life

5 × 2 = (10)

- 1.4 The diagram below represents the flower of an Angiosperm plant. Study the diagram and answer the questions that follow.



- 1.4.1 What is the collective name given to parts a, b and c? (1)
- 1.4.2 Is this flower likely to be self-pollinated? Give a reason for your answer. (2)
- 1.4.3 With LETTER *f* represents the part that will develop into a fruit? (1)

- 1.8 Study the graph below of the viral load and CD₄ count in blood taken from an HIV-infected person and then answer the questions below.



- 1.8.1 Discuss the trend of the curve in Graph A. (2)
- 1.8.2 Describe the relationship between Graph A and Graph B. (2)

TOTAL SECTION A: (16)

SECTION B QUESTION 2

- 2.1 The table below shows the number of tuberculosis (TB) cases and the number of deaths from TB around the world in 2009. Use the information in the table to answer the questions that follow.

Region	Number of cases (1 000's)	Number of deaths (1 000's)
Africa	3 600	400
The Americas	700	70
Eastern Mediterranean	1 000	90
Europe	580	82
South-East Asia	4 900	480
Western Pacific	7 900	240
Global total	14 000	1 300

- 2.1.1 What type of micro-organism causes TB? (1)
- 2.1.2 What type of medication is used to treat and cure TB? (1)
- 2.1.3 Work out the percentage of cases in Africa in terms of the global total. Show all your calculations. (2)
- 2.1.4 Which country had the highest number of deaths from TB in 2009? (1)
- 2.1.5 Suggest and explain reasons for the high number of TB cases in Africa in 2009. (2)
- 2.1.6 Give ONE symptom of TB. (1)

(16)

Grade 11 Paper 1 Life Sciences November 2014

**Shiquan Zhou, Aragona Patty, Shiming
Chen**



Grade 11 Paper 1 Life Sciences November 2014:

Proceedings of the 2014 Energy Materials Conference The Minerals, Metals & Materials Society (TMS), 2015-04-15 This DVD contains a collection of papers presented at EnergyMaterials 2014 a conference organized jointly by The Chinese Society for Metals CSM and The Minerals Metals Materials Society TMS and held November 4 6 2014 in Xi an Shaanxi Province China With the rapid growth of the world s energy production and consumption the important role of energy materials has achieved worldwide acknowledgement Material producers and consumers constantly seek the possibility of increasing strength improving fabrication and service performance simplifying processes and reducing costs Energy Materials 2014 has provided a forum for academics researchers and engineers around the world to exchange state of the art development and information on issues related to energy materials The papers on the DVD are organized around the following topics Materials for Coal Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

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

What Makes a World-Class School and How We Can Get There James H. Stronge, Xianxuan Xu, 2017-06-15 For years students in the United States have lagged behind students in many other countries on such measures of achievement as the PISA and TIMSS assessments In an increasingly globalized world such a gap is worrisome Armed with statistics examples and cautionary tales from Scandinavia to Japan James H Stronge and Xianxuan Xu have written a book that can help educators better prepare students and close that gap In What Makes a World Class School and How We Can Get There you will find

Careful analysis of recent international assessment results what they mean and what can be done to improve them In depth profiles of high achieving education systems around the globe their histories their lessons learned and what they can teach educators and policymakers in the United States Strategies for aligning successful educational approaches from international systems to U S schools which strategies to use in which subjects and with which students Transformative ideas for cultivating a truly world class system of schooling both simple and complex ways to raise the bar for all students no matter what their background Educators in every country must ensure that their students are as prepared as possible to lead a future generation of citizens This thought provoking and copiously researched book provides educators with a blueprint for radical improvement based on the hard learned experiences of their peers around the world **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

Applied Practice for Educators of Gifted and Able Learners Hava E. Vidergor,Carole Ruth Harris,2015-07-21 This book is a comprehensive study and guide for the classroom teacher the gifted program coordinator and the graduate student who are challenged daily to provide for individual children who differ markedly but come under the umbrella of giftedness It serves as a wellspring that derives from theory while it offers practical application of theoretical construct in a wide variety of international settings from leaders in the field who demonstrate implementation of proven and field tested techniques and alternative scenarios to accommodate every classroom situation Contributors are internationally recognized experts who have come together to provide a sound reliable source for teachers of the gifted that will be utilized time and time again by practitioners and researchers alike Among internationally renowned scholars are Joyce Van Tassel Baska Susan Johnsen June Maker Belle Wallace Linda Kreger Silverman Dorothy Sisk Gillian Eriksson Miraca Gross Gilbert Clark Enid Zimmerman and Rachel McAnallen Hava E Vidergor Ph D is lecturer of innovative pedagogy and curriculum design at Gordon Academic College and Arab Academic College of Education and holds a Ph D in Learning Instruction and Teacher Education with specialization in Gifted Education from the University of Haifa Israel Carole Ruth Harris Ed D formerly Director of G A T E S Research Evaluation is a consultant in education of the gifted in Central Florida who holds the doctorate from Columbia

University where she studied with A Harry Passow and A J Tannenbaum She has served as Associate in International Education at Harvard University Research Associate at Teachers College Columbia University lecturer at University of Massachusetts Lowell and University of Hawaii Principal Investigator at Research Corporation of the University of Hawaii and Director of the Center for the Gifted in Ebeye Marshall Islands **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 Winner 2024 Choice Outstanding Academic Title 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 **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 of the fate of our oceans in a human dominated age of 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

Superminds Thomas W. Malone,2018-05-15 From the founding director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together If you're like most people you probably believe that humans are the most intelligent animals on our planet But there's another kind of entity that can be far smarter groups of people In this groundbreaking book Thomas Malone the founding director of the MIT Center for Collective Intelligence shows how groups of people working together in superminds like hierarchies markets democracies and communities have been responsible for almost all human achievements in business government science and beyond And these collectively intelligent human groups are about to get much smarter Using dozens of striking examples and case studies Malone shows how computers can help create more intelligent superminds simply by connecting humans to one another in a variety of rich new ways And although it will probably happen more gradually than many people expect artificially intelligent computers will amplify the power of these superminds by doing increasingly complex kinds of thinking Together these changes will have far reaching implications for everything from the way we buy groceries and plan business strategies to how we respond to climate change and even for democracy itself By understanding how these collectively intelligent groups work we can learn how to harness their genius to achieve our human goals Drawing on cutting edge science and insights from a remarkable range of disciplines Superminds articulates a bold and utterly fascinating picture of the future that will change the ways you work and live both with other people and with computers

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

Mathematics (Education) in the Information Age Stacy A. Costa,Marcel Danesi,Dragana Martinovic,2020-12-10 This book brings together ideas from

experts in cognitive science mathematics and mathematics education to discuss these issues and to present research on how mathematics and its learning and teaching are evolving in the Information Age Given the ever broadening trends in Artificial Intelligence and the processing of information generally the aim is to assess their implications for how math is evolving and how math should now be taught to a generation that has been reared in the Information Age It will also look at the ever spreading assumption that human intelligence may not be unique an idea that dovetails with current philosophies of mind such as posthumanism and transhumanism The role of technology in human evolution has become critical in the contemporary world Therefore a subgoal of this book is to illuminate how humans now use their sophisticated technologies to chart cognitive and social progress Given the interdisciplinary nature of the chapters this will be of interest to all kinds of readers from mathematicians themselves working increasingly with computer scientists to cognitive scientists who carry out research on mathematics cognition and teachers of mathematics in a classroom

Young Adult Literature, Fourth Edition Michael Cart, 2022-05-09 Editorial Advisory Board Sarah Park Dahlen Associate Professor School of Information Sciences University of Illinois Urbana Champaign Marianne Martens Associate Professor School of Information Kent State University Amy Pattee Associate Professor and Co coordinator of Dual Degree MS LIS MA Children s Literature School of Library and Information Science Children s Literature Simmons University Comprehensive and substantial a highly recommended resource raved VOYA about the third edition Now to keep pace with changes in the field of publishing and realign itself to the newest generation of young adults Cart returns with a sweeping update of his classic text Relied upon by educators LIS instructors and students and practitioners for its insight and thoroughness his book surveys the landscape of YA lit both past and present sketching out its origins and showing how it has evolved to deal with subjects every bit as complex as its audience closely examines teen demographics literacy audiobooks the future of print the role of literary criticism and other key topics provides updated coverage of perennially popular genre fiction including horror sci fi and dystopian fiction delves deeply into multicultural and LGBTQIA literature substantially updated in this edition features expansive interviews with best selling authors like Eric Shanower Jackie Woodson and Bill Konigsberg as well as several publishers and leaders in the field discusses the impact of the Printz Award ALAN s Walden Award the National Book Award The Los Angeles Times Book Award and other honors and features abundant bibliographic material to aid in readers advisory and collection development

The Disorder of Mathematics Education Hauke Straehler-Pohl, Nina Bohlmann, Alexandre Pais, 2016-08-23 Research within a socio political paradigm or turn has been gradually recognized and institutionalized as an important part of mathematics education This book focuses on the neglected problems tensions and contradictions evoked by this process The authors do this by challenging current regimes of truth about mathematics education by identifying how recent technological developments challenge or suspend contemporary conceptions of mathematics education by critiquing the ideological entanglement of mathematics its education and schooling with capitalism by self reflective analyses of

researchers impacts on shaping what is and can be perceived as the practice of mathematics education research and by confronting main stream mathematics education with socio political contexts that are usually neglected In this way mathematical rationality becomes contextualized within contemporary society where it reproduces itself through technologies social practices media and other spheres of social life

Health Informatics - E-Book Ramona Nelson, Nancy Staggers, 2016-12-08 Awarded second place in the 2017 AJN Book of the Year Awards in the Information Technology category See how information technology intersects with health care Health Informatics An Interprofessional Approach 2nd Edition prepares you for success in today s technology filled healthcare practice Concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth ePatients and social media tools as well as system implementation New to this edition are topics including data science and analytics mHealth principles of project management and contract negotiations Written by expert informatics educators Ramona Nelson and Nancy Staggers this edition enhances the book that won a 2013 American Journal of Nursing Book of the Year award Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics a key Quality and Safety Education for Nurses QSEN initiative and a growing specialty area in nursing Case studies encourage higher level thinking about how concepts apply to real world nursing practice Discussion questions challenge you to think critically and to visualize the future of health informatics Objectives key terms and an abstract at the beginning of each chapter provide an overview of what you will learn Conclusion and Future Directions section at the end of each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation NEW Updated chapters reflect the current and evolving practice of health informatics using real life healthcare examples to show how informatics applies to a wide range of topics and issues NEW mHealth chapter discusses the use of mobile technology a new method of health delivery especially for urban or under served populations and describes the changing levels of responsibility for both patients and providers NEW Data Science and Analytics in Healthcare chapter shows how Big Data as well as analytics using data mining and knowledge discovery techniques applies to healthcare NEW Project Management Principles chapter discusses proven project management tools and techniques for coordinating all types of health informatics related projects NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor NEW Legal Issues chapter explains how federal regulations and accreditation processes may impact the practice of health informatics NEW HITECH Act chapter explains the regulations relating to health informatics in the Health Information Technology for Education and Clinical Health Act as well as the Meaningful Use and Medicare Access CHIP Reauthorization Act of 2015

Advances in Energy Science and Equipment Engineering II Volume 1 Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 will be held on November 12 14 2016 in Guangzhou China ICEESE 2016 is to bring together innovative academics and industrial

experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas 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 Higher Expectations Derek Bok,2022-05-17

How our colleges and universities can respond to the changing hopes and needs of society In recent decades cognitive psychologists have cast new light on human development and given colleges new possibilities for helping students acquire skills and qualities that will enhance their lives and increase their contributions to society In this landmark book Derek Bok explores how colleges can reap the benefits of these discoveries and create a more robust undergraduate curriculum for the twenty first century Prior to this century most psychologists thought that creativity empathy resilience conscientiousness and most personality traits were largely fixed by early childhood What researchers have now discovered is that virtually all of these qualities continue to change through early adulthood and often well beyond Such findings suggest that educators may be able to do much more than was previously thought possible to teach students to develop these important characteristics and thereby enable them to flourish in later life How prepared are educators to cultivate these qualities of mind and behavior What do they need to learn to capitalize on the possibilities Will college faculties embrace these opportunities and make the necessary changes in their curricula and teaching methods What can be done to hasten the process of innovation and application In providing answers to these questions Bok identifies the hurdles to institutional change proposes sensible reforms and demonstrates how our colleges can help students lead more successful productive and meaningful lives

Standards-Based Leadership Sandra Harris,Julia Ballenger,Jason Mixon,2015-05-06 Today s school principals are

charged with the responsibility of creating learning organizations that emphasize success for all students Framing decisions in standards that are grounded in research and best practice this book provides a structure for learning and growth for both current and aspiring principals Each chapter in Standards Based Leadership A Case Study Book for the Principalship is organized around a Texas Principal Competency Exam and related to the 2014 Texas Principal Standards and 2011 ELCC standards The cases provided for discussion are all based on real problems that challenge principals in Texas or any other state By applying the standards and using the brief literature reviews as resources to guide decision making principals are provided with a framework for implementation of specific strategies that will best help them successfully lead schools

Scientific and Technical Aerospace Reports ,1978 Efficacy and Mechanism of Herbal Medicines and Their Functional Compounds in Preventing and Treating Cardiovascular Diseases and Cardiovascular Disease Risk Factors Qing Yong He,Yu-Qing Zhang,Jie Wang,Jian Zhang,Kuo Gao,Zhongfeng Li,2023-10-13 How social and personal resources support teaching and learning effectiveness Ramona Palos,Delia Virga,2023-03-02

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