

- 2.2 Study the diagram of four plant species below and answer the questions that follow.



- 2.2.1 What is this type of representation called? (1)
- 2.2.2 Which characteristic is found in the pine tree that is not found in the palm tree? (2)
- 2.2.3 During which period did the ancestor of the pine tree and the palm tree diverge (branched off)? (1)
- (4)

- 2.3 Study the sketches of plants below and answer the questions that follow.



- 2.3.1 Identify the plant groups under which plants A, B, C and D are classified. (4)
- 2.3.2 Identify the structure numbered 2. (1)
- 2.3.3 Plants B and C both produce seeds. Explain the importance of seeds for both these plants. (4)
- 2.3.4 Give a reason why plant A needs water for sexual reproduction. (2)
- (11)

- 2.4 Use your knowledge and compare the jelly fish, tapeworm and earthworm in a table regarding the following characteristics:
- 2.4.1 symmetry
- 2.4.2 coelom
- 2.4.3 blood system
- (10)

QUESTION 3

- 3.1 Read the passage below and answer the questions that follow.

Peat lands are special wetlands that play a very important role in ecology. A peat land, of approximately 5 000 years old, near Mafeking is almost destroyed because of excessive extraction of water from the nearby Molapo river. The water is extracted for human consumption.

Peat lands like the one near Mafeking is exceptional and play an important role in storing water as well as preventing climate changes.

Dr Phil-Louis Grundling said that carbon that is 'held' or 'stored' by peat lands combats climate change because it decreases the amount of carbon in the atmosphere.

Peat lands trap about one third of the world's carbon. Approximately 50% of wetlands worldwide are peat lands. However in South Africa about 10% of the wetlands are peat lands.

Grundling explained that peat lands can hold about 1 000 times its own mass in water. This replenishes the water table and is the source that keeps streams flowing. The 'sponge effect' of the peat also makes it possible to store water that is then released during dry seasons.

Dr Grundling said that it might be too late to restore the peat land near Mafeking but it might be possible to restore some parts of it if more water is supplied to this peat land.

The result of this destruction is depletion of the water table. The habitat of numerous fish and frog species that lived in this peat land was also destroyed.

From: *Beeld*, 21 September 2018.

- 3.1.1 Give TWO other reasons (not mentioned in the passage) that can lead to the destruction of wetlands. (2)
- 3.1.2 Discuss reasons from the passage regarding the importance of these specific wetlands for the environment. (4)
- 3.1.3 Suggest a way in which this peat land near Mafeking can be restored. (2)
- (8)

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Clifford Lane



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Behavioral Science & Policy: Volume 2, Issue 1 Craig Fox, Sim B. Sitkin, 2016-11-22 The success of nearly all public and private sector policies hinges on the behavior of individuals groups and organizations Today such behaviors are better understood than ever thanks to a growing body of practical behavioral science research However policymakers often are unaware of behavioral science findings that may help them craft and execute more effective and efficient policies The pages of this new journal will become a meeting ground a place where scientists and non scientists can encounter clearly described behavioral research that can be put into action By design the scope of BSP is broad with topics spanning health care financial decisionmaking energy and the environment education and culture justice and ethics and work place practices Contributions will be made by researchers with expertise in psychology sociology law behavioral economics organization science decision science and marketing The journal is a key offering of the Behavioral Science Policy Association in partnership with the Brookings Institution The mission of BSPA is to foster dialog between social scientists policymakers and other practitioners in order to promote the application of rigorous empirical behavioral science in ways that serve the public interest BSPA does not advance a particular agenda or political perspective The first issue s contents follow Behavioral Science Policy vol 2 no 1 Table of Contents Editors Note Spotlight Pre Kindergarten Interventions American Policy on Early Childhood Education Development Many Programs Great Hopes Modest Prospects Ron Haskins Evidence for the Benefits of State Prekindergarten Programs Myth Misrepresentation Dale C Farran Mark W Lipsey Reforming Head Start for the 21st Century A Policy Prescription Sara Mead Ashley LiBetti Mitchel Home Visiting Programs Four Evidence Based Lessons for Policymakers Cynthia Osborne Launching Preschool 2 0 A Road Map to High Quality Public Programs at Scale Christina Weiland A 10 Year Strategy of Increased Coordination Comprehensive Investments in Early Child Development Ajay Chaudry Jane Waldfogel Reimagining Accountability in K 12 Education Brian P Gill Jennifer S Lerner Paul Meosky Featured Topic Healthy Through Habit Interventions for Initiating Maintaining Health Behavioral Change Wendy Wood David Neal Making the Truth Stick the Myths Fade Lessons from Cognitive Psychology Norbert Schwarz Eryn Newman William Leach Editorial Policy **Advances in Materials Sciences, Energy Technology and Environmental Engineering** Aragona Patty, Zhou Peijiang, 2017-01-20 The 2016 International Conference on Materials Science Energy Technology and Environmental Engineering MSETEE 2016 took place May 28 29 2016 in Zhuhai City China MSETEE 2016 brought together academics and industrial experts in the field of materials science energy technology and environmental engineering The primary goal of the conference was to promote research and developmental activities in these research areas and to promote scientific information interchange between researchers developers engineers students and practitioners working around the world The conference will be held every year serving as platform for researchers to share views and experience in materials science energy technology and environmental engineering and related areas Revolutionizing Education With Remote Experimentation and Learning

Analytics Ponnusamy, Sivaram,Antari, Jilali,Jeon, Gwanggil,Assaf, Mansour,Sharma, Bhisham,2025-03-28 Education is undergoing critical transformations driven by innovations in remote experimentation and learning analytics As technology reshapes how we teach and learn remote experimentation allows students to conduct hands on interactive experiments from anywhere in the world breaking down geographical and resource based barriers This shift enhances access to advanced learning opportunities while fostering engagement and practical understanding in fields traditionally reliant on in person labs Learning analytics harness the power of data to track student progress personalize learning experiences and identify areas for improvement in real time Together these tools revolutionize education by providing more flexible inclusive and data driven approaches that can adapt to individual learning needs paving the way for an effective and accessible global education system Revolutionizing Education With Remote Experimentation and Learning Analytics explores how digital technology may change how schools work It examines learning analytics and remote experimentation for improved education while delving into the most recent findings and cutting edge approaches This book covers topics such as data analysis higher education and student engagement and is a useful resource for educators academicians researchers data scientists computer engineers and sociologists

The Web of Geological Sciences: Marion E. Bickford,2017-09-29 The web of geological sciences Special papers 500 and 523 written in celebration of the 125th anniversary of the Geological Society of America

Mind Mapping and Artificial Intelligence Jose Maria Guerrero,2022-10-22 In the near future we will see an increase in the development and use of all sorts of AI applications Some of the more promising areas will be Finance Healthcare IoT Manufacturing Journalism and Cybersecurity Many of these applications generate a great amount of complex information Natural Language Understanding is one of the most clear examples Traditional ways of visualizing complex information namely linear text web pages and hyperlink based applications have serious productivity problems Users need a lot of time to visualize the information and have problems seeing the whole picture of the results Mind mapping is probably the only way of reducing the problems inherent in these traditional ways of visualizing complex information Most people have no clear idea about the advantages of mind mapping or the problems created by the traditional ways of visualizing complex information The goal of Mind Mapping and Artificial Intelligence is to provide readers with an introduction to mind mapping and artificial intelligence to the problems of using traditional ways of visualizing complex information and as an introduction to mind mapping automation and its integration into Artificial Intelligence applications such as NLU and others As more applications of Artificial Intelligence are developed in the near future the need for the improvement of the visualization of the information generated will increase exponentially Information overload will soon also happen in AI applications This will diminish the advantages of using AI Author Jos Maria Guerrero is a long time expert in mind mapping and visualization techniques In this book he also introduces readers to MindManager mind mapping software which can considerably reduce the problems associated with the interpretation of complex information generated by Artificial Intelligence software Provides coverage of

the fundamentals of mind mapping and visualization applied to Artificial Intelligence applications Includes coverage of the scientific bases for mind mapping for the visualization of complex information Introduces MindManager software for mind mapping Introduces the author's MindManager toolkit for the readers to use in development of new mind mapping applications Includes case studies and real world applications of MindManager for AI applications including examples using IBM Watson NLU

Bsstet Bihar Special School Teacher Eligibility Test Paper-2 Class 6-8 | Mathematics and Science 15 Practice Sets Team Prabhat, 2023-12-12 Prepare for Success BSSTET Bihar Special School Teacher Eligibility Test Paper 2 Class 6 8 Mathematics And Science 15 Practice Sets by Team Prabhat Get ready to ace the Bihar Special School Teacher Eligibility Test BSSTET with confidence and precision using this comprehensive guide by Team Prabhat Designed specifically for Paper 2 covering Mathematics and Science for classes 6 8 this book offers 15 practice sets meticulously crafted to help you excel in the exam With BSSTET Bihar Special School Teacher Eligibility Test Paper 2 you'll gain access to a wealth of practice questions covering key topics in Mathematics and Science Each practice set is expertly curated to mirror the format and difficulty level of the actual BSSTET exam ensuring that you're fully prepared for any challenge that comes your way Team Prabhat's guide goes beyond just providing practice questions It also offers detailed solutions and explanations for each question allowing you to identify areas for improvement and strengthen your understanding of core concepts in Mathematics and Science Whether you're revising key topics or simulating exam conditions this book is an invaluable resource for your BSSTET preparation journey Furthermore BSSTET Bihar Special School Teacher Eligibility Test Paper 2 is designed to be user friendly and accessible making it suitable for all types of learners Whether you prefer to study independently or in a group setting this book provides the tools and resources you need to succeed in the BSSTET exam Don't leave your BSSTET preparation to chance With BSSTET Bihar Special School Teacher Eligibility Test Paper 2 Class 6 8 Mathematics And Science 15 Practice Sets by Team Prabhat you'll be equipped with the knowledge skills and confidence to excel on exam day Order your copy now and take the first step towards securing your dream career as a special school teacher in Bihar Unlock your full potential and achieve success in the BSSTET exam with BSSTET Bihar Special School Teacher Eligibility Test Paper 2 Class 6 8 Mathematics And Science 15 Practice Sets by Team Prabhat Order your copy today and embark on the path to a rewarding teaching career

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Teaching and Learning STEM Richard M. Felder,Rebecca Brent,2016-02-22 Rethink traditional teaching methods to improve student learning and retention in STEM Educational research has repeatedly shown that compared to traditional teacher centered instruction certain learner centered methods lead to improved learning outcomes greater development of critical high level skills and increased retention in science technology engineering and mathematics STEM disciplines Teaching and Learning STEM presents a trove of practical research based strategies for designing and teaching STEM courses at the university community college and high school levels The book draws on the authors extensive backgrounds and decades of experience in STEM education and faculty development Its engaging and well illustrated

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Informed is best Amy Brown,2019 From the moment you share the news that you are pregnant or have a new baby it feels like everyone becomes an expert Did you see that headline Did you hear that story on TV Have you heard the latest about what they say is best In a world overflowing with information telling you what is best for you and your baby making decisions can feel overwhelming Who do you trust Who is telling the truth And how do you know if what they are saying is right for you How By becoming your own expert in sorting the media spin and politics from the actual facts and data This isn t a book that is going to tell you which decisions to make or that there is ever one right answer It is not going to tell you that the same thing is always best for everyone Instead this is a guide to help you evaluate information and evidence to decide what is right for you your body and your baby In three main parts it will firstly open your eyes to how information is shared in the media and how this can affect our thinking and decision making Next it will help you spot who is funding leading and promoting research and how this can affect the content of what is shared Finally it will talk you through reading understanding and evaluating evidence for yourself across topics in pregnancy birth and caring for babies You ll learn how to spot weaknesses in methods used how to determine the real risk for you and your baby and how wider context and other factors can influence what research means for you Information is power Making your own decisions that are right for you is empowering

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Canadian Books in Print ,1983 **The Science Teaching Efficacy Belief Instruments (STEBI A and B)** James Deehan,2016-07-28 The purpose of this Springer Brief is to provide a comprehensive review of both the STEBI methods and

findings through the use of a clearly defined analytic framework A systematic review of literature yielded 107 STEBI A research items and 140 STEBI B research items The STEBI instruments have been used in a wide range of qualitative cross sectional longitudinal and experimental designs Analysis of the findings of the papers reveals that in service and pre service programs that use innovative practices such as cooperative learning inquiry based investigation and nature of science instruction can produce positive growth in participants science teaching efficacy beliefs The personal science teaching efficacy beliefs of pre service and in service teachers showed greater mean scores and higher growth than their outcome expectancies Implications are discussed

Teaching for Learning and Learning for Teaching Christopher Klopfer, Steve Drew, 2015-10-30 Teaching for Learning and Learning for Teaching focuses on the emerging global governmental and institutional agenda about higher education teaching quality and the role that peer review can play in supporting improvements in teaching and student outcomes This agenda is a pervasive element of the further development of higher education internationally through activities of governments global agencies institutions of higher education discrete disciplines and individual teachers Many universities have adopted student evaluations as a mechanism to appraise the quality of teaching These evaluations can be understood as providing a customer centric portrait of quality and when used as the sole arbiter of teaching performance they do not instil confidence in the system of evaluation by academic teaching staff Providing peer perspectives as counterpoint whether in a developmental or summative form goes some way to alleviating this imbalance and is the impetus for the resurgence of interest in peer review and observation of teaching This book seeks to recognise cases of peer review of teaching in Higher Education to affirm best practices and identify areas that require improvement in establishing local national and international benchmarks of teaching quality

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

After Piketty Heather Boushey, J. Bradford

DeLong, Marshall Steinbaum, 2017-05-08 Are Thomas Piketty's analyses of inequality on target Where should researchers go from here in exploring the ideas he pushed to the forefront of global conversation In *After Piketty* a cast of economists and other social scientists tackle these questions in dialogue with Piketty in what is sure to be a much debated book in its own right

Authentic Learning Through Advances in Technologies Ting-Wen Chang, Ronghuai Huang, Kinshuk, 2017-09-19 This book introduces the advanced technologies used for authentic learning an educational term that refers to a variety of techniques focusing on how students apply the skills and knowledge acquired in school in real world situations In the meanwhile it presents the latest trends and future developments in learning design learning environment and assessment for authentic learning using advances in technology this book discusses how technology supports authentic learning and what makes it effective

Handbook of STEM Faculty Development Sandra M. Linder, Cindy M. Lee, Shannon K Stefl, Karen A. High, 2022-12-01 Faculty in the science technology engineering and mathematics STEM disciplines face intensifying pressures in the 21st century including multiple roles as educator researcher and entrepreneur In addition to continuously increasing teaching and service expectations faculty are engaged in substantive research that requires securing external funding mentoring other faculty and graduate students and disseminating this work in a broad range of scholarly outlets Societal needs of their expertise include discovery innovation and workforce development It is critical to provide STEM faculty with the professional development to support their complex roles and to base this development on evidence derived from research This edited handbook provides STEM stakeholders with an opportunity to share studies and or experiences that explore STEM faculty development FD in higher education settings More specifically we include work that examines faculty development planning techniques models experiences and outcomes focused on supporting the teaching research service and leadership responsibilities of STEM faculty The Handbook is suited for researchers and practitioners in STEM STEM Education Mathematics Science Technology and Engineering disciplines It is also suited towards faculty developers higher education administrators funding agencies industry leaders and the STEM community at large This handbook is organized around three constructs INPUTS MECHANISMS and OUTPUTS The STEM faculty development inputs construct focuses on topics related to the characteristics of faculty members and institutions that serve as barriers or supports to the adoption and implementation of holistic STEM faculty development programs Questions addressed in the handbook around this topic include What barriers supports exist for STEM faculty How are these barriers supports being addressed through STEM FD How do contexts e g economic political historical influence faculty administrative needs related to STEM FD How do demographics e g gender ethnicity age family background influence faculty administrative needs related to STEM FD The STEM faculty development mechanisms construct focuses on topics related to the actual implementation of STEM faculty development and we consider the potential models or structures of STEM faculty development that are currently in place or conceptualized in theory Questions addressed in the handbook around this topic include What are the processes for

developing models of STEM FD What are effective models of STEM FD How is effectiveness determined What roles do stakeholders e g faculty administration consultants play within STEM FD mechanisms The STEM faculty development outputs construct focuses on how to best understand the influence of STEM faculty development on outcomes such as productivity teacher quality and identity in relation to faculty development Questions addressed in the handbook around this topic include How has STEM FD influenced higher education practices and settings What are appropriate output measures and how are they used in practice What collaborations emerge from STEM FD How does STEM FD affect other STEM stakeholders e g students administration business community The aim for this handbook was to examine the multifaceted demands of faculty roles and together with members of the STEM education community envision pathways through which universities and individuals may support STEM colleagues regardless of their experience or rank to enjoy long and satisfying careers Our hope is for these chapters to aid readers in deep reflection on challenges faculty face to contemplate adaptations of models presented and to draw inspiration for creating or engaging in new professional development programs Chapters across this handbook highlight a variety of institutional contexts from 2 year technical colleges to teaching focused institutions in addition to research centric settings Some chapters focus primarily on teaching and learning practices and offer models for improving STEM instruction Others focus on barriers that emerge for STEM faculty when trying to engage in development experiences There are chapters that examine tenure structures in relation to faculty development and how STEM FD efforts could support research endeavors Mentorship and leadership models are also addressed along with a focus on equity issues that permeate higher education and impact STEM FD It is our sincere hope that this Handbook sparks increased discourse and continued explorations related to STEM FD and in particular the intentional focus of faculty development initiatives to extend to the many facets of academic life

Science Education Research and Practices in Taiwan Mei-Hung Chiu, 2015-08-04 This book highlights the development and outcomes of research on and practical experience in science education in Taiwan As the outcomes of the scholarship on science education in Taiwan have garnered attention in science education communities around the world this book gathers the most relevant research on Taiwan presenting it in a cohesive overview that will move science education forward in terms of policy research and practice

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