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Science and Technology Teacher Education in the Anthropocene Miranda Rocksén, Elaosi Vhurumuku, Maria Svensson, Emmanuel Mushayikwa, Audrey Msimanga, 2022-05-17 This unique book compares anthropogenic challenges in science and technology teacher education between the northern and southern contexts of Sweden and South Africa respectively Presenting the results of a three year research collaboration between science and technology teacher education researchers from South Africa and Sweden the book explores theoretical perspectives and pedagogical experiences in response to challenges in the Anthropocene It discusses research informed practice in teacher education to address sustainable development Chapters in the book collectively investigate the influence of current environmental and societal changes on the education of teachers answering the question of how science and technology teacher education can adjust to current changes in the world and prepare new teachers for work in their future profession Touching on issues such as climate change global warming and pandemic diseases the book uses a comparative approach and explores opportunities and possibilities for fulfilling the goals of science and technology education for sustainable development The book offers recommendations and opportunities to implement sustainability issues and develop sustainable teaching strategies It will be a key reading for researchers academics and post graduate students in the fields of teacher education science and **Intentional Assessment for Teacher** technology education sustainability education and comparative education **Education** Zelda Barends, Anthea H M Jacobs, This book showcases rigorous and authentic examples of case studies of assessment for learning designed and implemented by a group of teacher educators. The book also examines and highlights the theoretical frameworks that underpin the thinking of these teacher educators as they grappled with using assessment to enable learning in a teacher education programme Drawing on these examples of strategies for implementation including the use of technology the book distils and develops a conceptual framework for assessment for professional learning for the use of teacher educators more broadly. The book is a valuable resource providing guidelines for teacher educators academic developers researchers university teachers academic leaders and all those interested in assessment and teacher education

Representations of Nature of Science in School Science Textbooks Christine McDonald, Fouad Abd-El-Khalick, 2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education **Research Handbook on Classroom Observation** Sean Kelly, 2025-03-12 This comprehensive Research Handbook offers cutting edge insights into classroom observation systems for teacher evaluation and professional development with an emphasis on both applied and discovery oriented inquiry

School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy Science Teacher Education for Responsible Citizenship Maria Evagorou, Jan Alexis Nielsen, Justin Dillon, 2020-03-23 This edited book aims to provide a global perspective on socioscientific issues SSI responsible citizenship and the relevance of science with an emphasis on science teacher education The volume with more than twenty five contributors from Africa North and South America Asia Australasia and Europe focuses on examples from in and pre service teacher training The contributors expand on issues related to teachers beliefs about teaching SSI teachers challenges when designing and implementing SSI related activities the role of professional development both in pre and in service teacher training in promoting SSI the role of the nature of science when teaching SSI promoting scientific practices through SSI in pre service teaching and the role of indigenous knowledge in SSI teaching Finally the book discusses new perspectives for addressing SSI in teacher education through the lens of relevance and responsible citizenship Curriculum Theory, **Curriculum Theorising, and the Theoriser**, 2020-12-29 Curriculum studies is at the core of the educational endeavour and informs what happens in every educational institution As a result of its criticality or primacy every educational practitioner appears to claim expertise in curriculum matters and what direction the field should take In Africa the curriculum practitioner has been given little or no space to theorise and orient the future of the field in Africa Instead European and American curriculum theorisers have been allowed to exert a marked influence on the nature and direction of African theoretical and philosophical underpinnings This situation raises fundamental questions about the future of education in Africa and this volume explores and answers these questions relating to curriculum theory theorising and the theoriser by breaking traditions and experimenting on alternative approaches and pathways Contributors are Aruna Ankiah Gangadeen Lynn Biggs Eunice Champion Taryn Isaacs De Vega Kehdinga George Fomunyam Nadaraj Govender Angela James Simon Bheki Khoza Noma China Kubashe Nehemiah Latolla Jacqui L ck Dumisa Celumusa Mabuza Simeon Maile Suriamurthee Maistry Makhulu A Makumane Zvisinei Moyo Cedric Bheki Mpungose Pascal Nadal Blanche Ntombizodwa Ndlovu Christopher Ndlovu Emily Mangwaya Ndlovu Nellie Ngcongo James Deirdre Pratt Mukhtar Raban Nolundi Radana

Makhosazana Edith Shoba Mahlapahlapana Themane Molaodi Tshelane and Denise Zinn Remapping Africa in the Global Space Edward Shizha, 2014-11-26 What are the benefits and risks for Africa's participation in the globalisation nexus Remapping Africa in the Global Space is a visionary and interdisciplinary volume that restores Africa's image using a multidisciplinary lens It incorporates disciplines such as sociology education global studies economics development studies political science and philosophy to explore and theorise Africa's reality in the global space and to deconstruct the misperceptions and narratives that often infantilise Africa's internal and international relations The contributions to this volume are a hybrid of both outsider and insider perspectives that create a balanced critical discourse that can provide standard paradigms that can adequately explain predict or prevent Africa's current misperceptions and myths about the African crisis and failure status The authors provide a holistic and perhaps anticolonial and anti hegemonic perspective that can benefit a wide spectrum of academics scholars students development agents policy makers in both governmental and non governmental organisations and engage some alternative analyses and possibilities for socio politico and economic advancement in Africa The book provides up to date scholarly research on continental trends on various subjects and concerns of paramount importance to globalisation and development in Africa The book is brilliant Remapping Africa in the Global Space Propositions for Change explores Africa from the perspective of academics specialised in subject matters pertaining to the continent In this age of globalisation I find this book invaluable It is a good read as it dissects analyses and presents issues affecting the continent in an articulate and cogent way I highly recommend its use in academic institutions Magnus Mfoafo M Carthy Assistant Professor Lyle S Hallman Faculty of Social Work Fellow of Tshepo Institute for the Study of Contemporary Africa Wilfrid Laurier University Kitchener Canada More than anything else Remapping Africa in the Global Space Propositions for Change speaks to the complex multifaceted and interfused character of the development challenges and prospects of Africa Indeed few books have examined contemporary Africa as comprehensively and insightfully as this edited volume it is widely welcomed in the African academic scholarly and research arena Joseph Mensah Professor of Geography York University Toronto Educational Technology and Pedagogic Encounters Yusef Waghid, 2016-07-15 This book looks at some of the underlying theories of educational technology means and ways in which this technology is guided in practice ends The authors are intent on producing ends that prepare students to undertake new analyses and evaluations that can result in new possibilities for democratic action Emphasis is on their understanding of and position within educational technology as opposed to using or applying educational technology. The work is not written from the point of view that their embeddedness within educational technology has a utilitarian end in mind but rather that their situatedness within educational technology a practice in itself leaves open possibilities for new ways of understanding democratic education This book is organised into six interrelated themes that work towards the cultivation of educational technology as a human practice which guides pedagogic encounters on the basis of taking risks in relation to which the unexpected unimaginable is

always possible Creating Effective Teaching and Learning Spaces: Shaping Futures and Envisioning Unity in Diversity and Transformation Zilungile Lungi Sosibo, Eunice Ivala, 2021-09-07 Higher education in post apartheid South Africa was always likely to attract academic interest and yet there remains a dearth of research on creating teaching and learning spaces suitable for students from diverse backgrounds Using examples from higher education institutions across the Southern African Developing Community SADC region this volume explores the ways teaching and learning spaces are being used to advance the transformation agenda of higher education in these regions and provides concrete recommendations for the future The book is sure to appeal to academics from a variety of disciplines from African African American and ethnic studies to education and sociology It will be of particular interest to teacher trainers administrators and policy makers working in higher education and anyone else with a stake in managing cultural diversity in education Confidential Documents United States. Army Air Forces, United States. Document Service Center, Dayton, Ohio, 1948 **Proceedings of** the International Conference on Education Research Reza Hosseini, **Schooling for Sustainable Development in** Africa Heila Lotz-Sisitka, Overson Shumba, Justin Lupele, Di Wilmot, 2016-11-11 This book considers the scope and dynamics of Education for Sustainable Development ESD and learning in schools in Africa It explores the conditions and processes that support such learning and examines how ESD in schooling can improve the quality and relevance of education The quality of education has been defined internationally as a key concern for educational institutions around the world including schools in Africa The models of quality are often limited to performance based approaches and or inclusive approaches The contributions in this book show that there is more to a discussion on educational quality in Africa than performance success and or inclusion The chapters explain how ESD brings a new relevance to education in Africa and at the same time sounds the beginning of a new concept of quality education. The volume presents a collection of experiences in creating and supporting quality learning processes through a variety of ESD practices Teaching Reading Comprehension to English Learners in Secondary Schools: A Research-Based Approach Cekiso, Madoda, Olifant, Florence, Mokhtari, Kouider, 2025-04-23 Teaching reading comprehension to English learners ELs in secondary schools presents unique challenges as these students must navigate the complexities of academic texts and the intricacies of language acquisition Effective instruction requires a research based approach that considers the diverse linguistic cultural and cognitive backgrounds of these learners Recent studies highlight the importance of integrating strategies that build both language proficiency and content knowledge essential for helping ELs develop the skills needed to comprehend complex materials Fostering metacognitive awareness through strategies like summarizing questioning and making connections can empower students to become active and strategic readers This approach recognizes the need for a supportive inclusive classroom environment that encourages language development while promoting academic achievement in content areas Further research may help educators provide English learners with the tools to thrive as capable readers in secondary school Teaching Reading Comprehension to English

Learners in Secondary School A Research Based Approach explores various aspects of teaching reading comprehension to English Second Language ESL learners in secondary schools It examines current challenges and evidence based strategies in reading comprehension This book covers topics such as language learning reading strategies and teacher training and is a useful resource for academicians researchers and scientists **Decolonising Teacher Education** Parlo Singh, Deborah Heck, Stephen Heimans, Angelina Ambrosetti, 2024-12-12 This book makes a deliberate attempt to explore the complexity of decolonising theories in teacher education It draws attention to the historical and emerging impacts of colonialism on educational institutions and practices challenging educators to expand their understanding of diverse trajectories of decolonial research both theoretically and practically It adds to the discussions and dialogues between different disciplinary traditions such as postcolonial and decolonial studies as well as critical Indigenous and critical race studies As an international compilation it offers educators a unique opportunity to envision teacher education through alternative lenses rethinking the relationship between ontology epistemology ethics that is what constitutes knowledge how it is produced and what material worlds are constructed in and through knowledge research systems Through compelling examples this book illustrates how educators have navigated epistemic injustices within the field of teacher education amidst the rising global demands for standardisation It encourages teacher educators to explore alternative theories within their own contexts crafting new teacher education practices in universities and schools Handbook of Research on Inclusive and Accessible Education Maguvhe, Mbulaheni Obert, Mpya, Nwacoye Gladness, Sadiki, Marubini Christinah, 2024-02-16 In the vast expanse of education a pervasive issue remains in the marginalization and lack of visibility of individuals with disabilities Despite a strong desire for inclusivity recent research suggests that fewer than 5% of children with disabilities in 51 countries across sub Saharan Africa and South Asia are enrolled in primary school This exclusion is not solely in enrollment numbers even those who manage to attend face learning environments ill equipped to adapt to their needs leading to further isolation Girls with disabilities in particular endure heightened vulnerability to abuse reflecting a systemic failure to provide an environment that fosters equality dignity and respect for all The Handbook of Research on Inclusive and Accessible Education emerges as an inspiration for change providing a profound solution to the persistent issue of exclusion The book encapsulates a collective effort to reimagine education It advocates for a paradigm shift moving away from the confinement of special schools and towards inclusive mainstream settings By addressing controversies sharing successes and outlining prospects the book serves as a comprehensive guide for special school governing bodies curriculum advisors university lecturers and all stakeholders committed to reshaping education Human Aspects of Information Security and **Assurance** Nathan Clarke, Steven Furnell, 2024-11-27 The two volume set IFIP AICT 721 722 constitutes the proceedings of the 18th IFIP WG 11 12 International Symposium on Human Aspects of Information Security and Assurance HAISA 2024 held in Sk vde Sweden in July 9 11 2024 The 39 full papers presented were carefully reviewed and selected from 55 submissions

The papers are organized in the following topical sections Part I Management and Risk Social Engineering Technical Attacks and Defenses Usable Security Part II Awareness and Education Privacy Masixhase abantwana bakwazi ukufunda nokubhala - Let us enable our children to read and write Stofile Sindiswa & Nomlomo Vuyokazi ,Nkomo, Sibhekinkosi, Anna, Magxala, Xoliswa, Patience, Mawela, Rethabile, Mudzielwana, Ndileleni, Magadla, Noluthando, Nondalana, Nomfundo, Kosi, Tembisa, Foncha, J.W., Linake, M.A. & Abongdia, J.A., Sigcau, Eurika, Nompucuko, Kemende, Wunseh, Quinta, McCarthy, Karen, Gxowa-Dlayedwa, Ntombizodwa, 2020-03-31 This book advances knowledge and scholarship on reading and writing by applying both theoretical and practical means of enhancing early literacy development at school level and in our communities The uniqueness of the book lies in its inclusive approach to accommodate a variety of readers including language and literacy teachers practitioners and scholars It uses two languages namely English and isiXhosa to address some of the critical issues on literacy teaching and learning and to disseminate knowledge to a diverse readership including parents students teachers and other relevant stakeholders who are committed to making a difference in the teaching and learning of literacy in different languages The aim is to transform and enrich discourse on language and literacy development which is predominantly in English and does not include African languages that are also used as the main languages of learning and teaching in the Foundation Phase Grades R 3 Resurgence and Revalorization of Indigenous Knowledge Systems in the Contemporary Society Masenya, Tlou Maggie, Bhuda, Monicca Thulisile, 2025-05-08 Indigenous knowledge is the comprehensive body of knowledge that locals accumulate from life experience unofficial research and close observation of their surroundings within a particular culture It connects the entirety of nature and the components that sustain life to the survival of every human being Additionally it gives specific community conditions in respect to the environment and offers workable answers to people s problems As a result by preserving indigenous knowledge systems indigenous knowledge may provide value to the community by offering innovative solutions to social environmental and economic issues Resurgence and Revalorization of Indigenous Knowledge Systems in the Contemporary Society explores the role of indigenous knowledge in the contemporary society Furthermore it discusses the importance of preserving and sharing indigenous knowledge for community development Covering topics such as epistemic diversity traditional load and indigenous curricula this book is an excellent resource for sociologists policymakers government officials environmentalists educators records managers professionals researchers scholars academicians and Scientific and Technical Aerospace Reports ,1995 more

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