

HAWASSA UNIVERSITY
Collage of Natural and Computational Science
Department of Mathematics

Work sheet -I
Basic Mathematics for Natural Sciences (2014EC)

- Show that the following propositions are equivalent
 - $(P \implies Q) \text{ and } \neg P \vee Q$
 - $P \text{ and } P \wedge (Q \vee \neg Q)$
- For statements p, q , and r , show that the following compound statements are tautology.
 - $(p \wedge (p \implies q)) \implies q$.
 - $((p \implies q) \wedge (q \implies r)) \implies (p \implies r)$.
- Let p and q be statements. Which of the following implies that $p \vee q$ is false?
 - $\neg p \vee \neg q$ is false.
 - $\neg p \vee q$ is true.
 - $p \implies q$ is true.
 - $p \wedge \neg q$ is true.
- Suppose that the statements P, Q, R , and S are assigned the truth values T, F, F , and T , respectively. Find the truth value of each of the following statements
 - $R \implies (S \wedge P)$
 - $P \implies (R \implies S)$.
 - $Q \wedge \neg S \implies (P \iff S)$.
 - $(R \wedge S) \implies (P \implies \neg Q \vee S)$
- If the value of $P \implies Q$ is F , then what is the truth value of $(\neg P \wedge Q) \iff (P \vee Q)$?
 - If the value of $P \iff Q$ is T , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
 - If the value of $P \iff Q$ is F , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
- Find the truth value of following compound statements using the given information.
 - $(p \implies q) \implies r$, where $r = T$.
 - $\neg(p \vee q) \iff (\neg p \wedge \neg q)$, where $p \vee q = T$.
 - $(p \wedge q) \implies (p \vee s)$, where $p = T$.
 - $p \vee (q \implies r)$, where $r = T$.
 - $(p \implies q) \implies (\neg q \implies \neg p)$, where $q = T$.
- Let $P(x, y): \frac{x}{y} < 1$, where the domain of x is $A = \{2, 3, 5\}$ and the domain of y is $B = \{2, 4, 6\}$. Then determine the truth value of the following quantified statement.
 - $(\forall x \in A)(\exists y \in B)P(x, y)$.
 - $(\exists x \in A)(\exists y \in B)P(x, y)$.
 - $(\exists y \in B)(\forall x \in A)P(x, y)$
- Determine the truth value of the following statements.
 - $(\exists x \in \mathbb{R})(x^2 - x = 0)$.
 - $(\forall x \in \mathbb{N})(x + 1 \geq 2)$.
 - $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.
 - $(\exists x \in \mathbb{Q})(3x^2 - 27 = 0)$.
 - $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$.
 - $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$
 - $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x + y = 5)$
 - $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
- Investigate the validity of the following argument forms using truth table method.
 - $\neg p \implies \neg q, q \vdash p$.
 - $p \implies \neg p, p, r \implies q \vdash \neg r$.
 - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.
- Investigate the validity of the following argument forms using formal proof (rule of inference)
 - $\neg p \implies \neg q, q \vdash p$.
 - $p \implies \neg q, p, r \implies q \vdash \neg r$.
 - $\neg r \wedge \neg s, (\neg s \implies p) \implies r \vdash \neg p$.
 - $\neg q \implies \neg p, r \implies p, \neg q \vdash r$.
 - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.

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**Ford Lumban Gaol,Fonny
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Daily Routines to Jump-Start Problem Solving, Grades K-8 John J. SanGiovanni, 2023-04-03 Finally A book that helps solve the problem of teaching problem solving Learning to be a problem solver is hard Teaching students how to be problem solvers themselves can be even harder Some students may learn to mimic procedures to come up with correct answers but are they really learning to solve problems To become independent problem solvers students need to practice exploring tinkering and most importantly thinking The bite size routines in this guide are perfect for teachers looking for the interesting engaging and doable practice students need to become problem solving masters These flexible modifiable bursts of quality practice are designed to get students to look at problems in different ways spark discussion make connections and boost mathematics achievement This collection addresses the common challenges students and teachers face when learning to problem solve by Developing students mathematical reasoning and conceptual understanding Building students skills with various problem solving strategies Nurturing mathematical confidence and improving identity and agency Fortified with standards for math practices and processes the ideas in this guide develop the reasoning and critical thinking skills for students to become independent problem solvers for life Problem Solving in Mathematics Instruction and Teacher Professional Development Patricio Felmer, Peter Liljedahl, Boris Koichu, 2019-11-22 Recent research in problem solving has shifted its focus to actual classroom implementation and what is really going on during problem solving when it is used regularly in classroom This book seeks to stay on top of that trend by approaching diverse aspects of current problem solving research covering three broad themes Firstly it explores the role of teachers in problem solving classrooms and their professional development moving onto secondly the role of students when solving problems with particular consideration of factors like group work discussion role of students in discussions and the effect of students engagement on their self perception and their view of mathematics Finally the book considers the question of problem solving in mathematics instruction as it overlaps with problem design problem solving situations and actual classroom implementation The volume brings together diverse contributors from a variety of countries and with wide and varied experiences combining the voices of leading and developing researchers The book will be of interest to any reader keeping on the frontiers of research in problem solving more specifically researchers and graduate students in mathematics education researchers in problem solving as well as teachers and practitioners **Thinking of Questions** Peter Limm, 2015-09-23 This is not a conventional book It is designed to stimulate and challenge all people who are curious to find out about the world they inhabit and their place within it It does this by suggesting questions and lines of questioning on a wide range of topics The book does not provide answers or model arguments but prompts people to create their own questions and a reading log or journal To this end almost all questions have a list of books or articles to provide a starter for stimulating further reading Once you start you will be hooked Never stop questioning **Answers to Your Biggest Questions About Teaching Secondary Science**

Karen Mesmer, Enya Granados, Kevin Gant, Laura Shafer, Ayanna D. Perry, 2024-01-25 Your guide to grow and flourish as a science teacher The past two decades have seen a paradigm shift in science education thanks in large part to the Next Generation Science Standards NGSS which advocate a move away from procedural lab investigations and direct instruction and toward increased emphasis on reasoning sensemaking phenomena exploration problem solving and collaboration Under this new paradigm students are learning real science as scientists practice it so that more and more students are actively investigating questions and pursuing solutions of their own making As part of the Five to Thrive series for early career educators this comprehensive guide provides those who are new to teaching science as well as seasoned teachers looking to enhance their practice the fundamentals to develop best teaching practices that reflect their students experiences and requirements Written by experienced science educators Answers to Your Biggest Questions About Teaching Secondary Science provides practical guidance on successful strategies and techniques for teaching science in a way that gives every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and authority in the classroom ultimately resulting in a positive science identity The book is organized around five overarching questions and answers that will help you most thrive in your secondary science classroom How do I build a positive science community How do I structure organize and manage my science class How do I engage my students in science How do I help my students talk about science How do I know what my students know and how can I use that information to plan and move them forward The book concludes with a sixth question Where do I go from here that provides guidance for growing your practice over time including discussions on self care advocating for students and an extensive discussion on growing your professional network Woven throughout you ll find helpful sidebar notes on fostering identity and agency access and equity teaching in different settings and invaluable resources for deeper learning Strive to become the best science educator you can be your students are counting on it **Educators' Work Integrated Learning Experiences** Iman C. Chahine, Lalini Reddy, 2024-09-17 This edited volume explores the power of educators work integrated learning experiences as transformative narratives transcending classroom boundaries Through critical reflection and storytelling teachers share their personal journeys across diverse cultural contexts offering fine grained descriptions of their growth and development Drawing on the belief that storytelling serves as a meeting ground for culture cognition and emotions educators narrate their encounters and immerse readers in glocal realms This book celebrates the immersion and excursion stories that shape educators lived experiences and personal histories illuminating how this knowledge can inspire highly impactful classroom practices for all students This volume is intended for in service and pre service educators teacher educators school administrators as well as undergraduate and graduate students in Social Sciences and Humanities Its primary goal is to delve into educators stories as they engage in work integrated learning programs across diverse global local contexts The Routledge Handbook of Materials Development for Language Teaching Julie Norton, Heather Buchanan, 2022-03-16 The

Routledge Handbook of Materials Development for Language Teaching is the definitive resource for all working in this area of language and English language teaching With 34 chapters authored by leading figures from around the world the Handbook provides an historical overview of the development of language teaching materials critical discussion of core issues and an assessment of future directions The contributions represent a range of different international contexts providing insightful state of the art coverage of the field Structured in nine sections the Handbook covers changes and developments in language teaching materials controversial issues in materials development research and materials development materials for language learning and skills development materials evaluation and adaptation materials for specific contexts materials development and technology developing materials for publication professional development and materials writing Demonstrating throughout the dynamic relationship between theory and practice this accessible Handbook is essential reading for researchers scholars and students on MA programmes in ELT TESOL and applied linguistics

Mathematics Education in East Africa Anjum Halai, Geoff Tennant, 2016-03-08 This Open Access book is a valuable resource for policymakers and practitioners as it brings insights mainly from developing countries where relatively less research activity takes place It is also a valuable resource for courses in mathematics education in the teacher education colleges and departments of education in the sub Saharan Africa region In the increasingly global and technological world mathematics is seen as a significant gatekeeper of opportunities for social and economic advancement and mobility Hence countries and development agencies in the broader sub Saharan Africa region are looking towards increasing access to relevant and high quality secondary education as a lever towards economic development Policy makers and other key decision makers in education look towards improvement in mathematics teaching and learning as a key focus in education reform In the East Africa region also a number of initiatives have been taken at the national level in the respective countries to improve the quality of mathematics education This book provides an in depth comparative analysis of the developments and issues in mathematics education in Kenya Tanzania Rwanda and Uganda and advances our understanding of the state of secondary mathematics education in East Africa

Exploring Education at Postgraduate Level Anne O'Grady, Vanessa Cottle, 2015-09-25 There is a growing demand for educational professionals to develop a more critical understanding of the key and emerging debates in education so that they can better meet the challenges and demands placed upon them Exploring Education at Postgraduate Level represents a range of perspectives from educational experts to academic researchers and highlights the key issues surrounding contemporary education Organised into three parts and drawing on key issues in education theory policy and practice the book considers areas such as SEN evaluating learning ESOL and gender Featuring reflective questions case studies and summaries of core ideas the chapters include Troublesome learning journey Applying educational thinkers to contemporary educational practice Values production through social and emotional learning Policy research In defence ad hocery We are all critically reflective now The politics of critical reflection in higher

education and in the work place Developing critical thought about SEN The refuge of relativism Aimed at supporting students on Masters level courses this accessible but critically provocative text is an essential resource for those wishing to develop a more critical understanding of the role purpose and function of educational systems and practices **Science Outside the Laboratory** Marcel Boumans, 2015-05-01 The conduct of most of social science occurs outside the laboratory Such studies in field science explore phenomena that cannot for practical technical or ethical reasons be explored under controlled conditions These phenomena cannot be fully isolated from their environment or investigated by manipulation or intervention Yet measurement including rigorous or clinical measurement does provide analysts with a sound basis for discerning what occurs under field conditions and why In **Science Outside the Laboratory** Marcel Boumans explores the state of measurement theory its reliability and the role expert judgment plays in field investigations from the perspective of the philosophy of science Its discussion of the problems of passive observation the calculus of observation the two model problem and model based consensus uses illustrations drawn primarily from economics Rich in research and discussion the volume clarifies the extent to which measurement provides valid information about objects and events in field sciences but also has implications for measurement in the laboratory Scholars in the fields of philosophy of science social science and economics will find **Science Outside the Laboratory** a compelling and informative read **Mathematical Problem Solving** Peter Liljedahl, Manuel Santos-Trigo, 2019-02-12 This book contributes to the field of mathematical problem solving by exploring current themes trends and research perspectives It does so by addressing five broad and related dimensions problem solving heuristics problem solving and technology inquiry and problem posing in mathematics education assessment of and through problem solving and the problem solving environment Mathematical problem solving has long been recognized as an important aspect of mathematics teaching mathematics and learning mathematics It has influenced mathematics curricula around the world with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving And as such it has been of interest to mathematics education researchers for as long as the field has existed Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students development of mathematical knowledge and problem solving skills The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners success in problem solving activities cognitive metacognitive social and affective analysis curriculum proposals and ways to promote problem solving approaches **Workers and Trade Unions for Climate Solidarity** Paul Hampton, 2015-06-05 This book is a theoretically rich and empirically grounded account of UK trade union engagement with climate change over the last three decades It offers a rigorous critique of the mainstream neoliberal and ecological modernisation approaches extending the concepts of Marxist social and employment relations theory to the climate realm The book applies insights from employment relations to the political economy of climate change developing a model for understanding trade union behaviour over climate matters The strong interdisciplinary approach

draws together lessons from both physical and social science providing an original empirical investigation into the climate politics of the UK trade union movement from high level officials down to workplace climate representatives from issues of climate jobs to workers climate action This book will be of great interest to students and researchers in environmental politics climate change and environmental sociology

Teacher Preparation at the Intersection of Race and Poverty in Today's Schools Patrick M. Jenlink, 2019-08-09 Teacher Preparation at the Intersection of Race and Poverty in Today's Schools introduces the reader to a collection of thoughtful works by authors that represent current thinking about teacher preparation Importantly the book is divided into two primary sections the first being four chapters that offer understanding of the depth and breadth of the intersection of race and poverty as it relates to teaching and teacher preparation The second section presents Dialogues of Teacher Education focused on Meeting the Challenge of Race and Poverty in Our Schools The Role of Teacher Education with eight contributing authors who reflect on and give voice to meeting the challenge Finally two book reviews are presented that align with the concern for preparing teachers to enter schools at the intersection of race and poverty on a daily basis

Social Sciences and Interdisciplinary Behavior Ford Lumban Gaol, Fonny Hutagalung, Nailya Bagautdinova, Lenar Safiullin, 2016-09-19 Social Sciences and Interdisciplinary Behavior contains papers that were originally presented at the 4th International Congress on Interdisciplinary Behavior and Social Science 2015 ICIBSoS 2015 held 22-23 October 2015 at The Institute of Management Economics and Finance of the Kazan Federal University Kazan Russia and 7-8 November 2015 in Arya Duta Hotel Jakarta Indonesia The contributions deal with various interdisciplinary research topics particularly in the fields of social sciences education economics and arts The papers focus especially on such topics as language cultural studies economics behavior studies political sciences media and communication psychology and human development

Morality and Epistemic Judgement Christopher Cowie, 2019 Moral judgments attempt to describe a reality that does not exist so they are all false This troubling view is known as the moral error theory Christopher Cowie defends it against the most compelling counter argument the argument from analogy Cowie shows that moral error theory does not compromise the practice of making epistemic judgments

Creativity of an Aha! Moment and Mathematics Education, 2021-05-25 Creativity of an Aha Moment and Mathematics Education introduces bisociation the theory of Aha moment creativity into mathematics education It establishes relationships between Koestler's bisociation theory and constructivist learning theories It lays down the basis for a new theory integrating creativity with learning to describe moments of insight at different levels of student development The collection illuminates the creativity of the eureka experience in mathematics through different lenses of affect cognition and conation theory of attention and constructivist theories of learning neuroscience and computer creativity Since Aha is a common human experience the book proposes bisociation as the basis of creativity for all It discusses how to facilitate and assess Aha creativity in mathematics classrooms Contributors are William Baker Stephen Campbell Bronislaw Czarnocha Olen Dias Gerald Goldin Peter Liljedahl John Mason Benjamin Rott Edme Soho

Hector Soto Hannes Stoppel David Tall Ron Tzur and Laurel Wolf **Ubiquitous Translation** Piotr

Blumczynski,2016-06-23 In this book Piotr Blumczynski explores the central role of translation as a key epistemological concept as well as a hermeneutic ethical linguistic and interpersonal practice His argument is three fold 1 that translation provides a basis for genuine exciting serious innovative and meaningful exchange between various areas of the humanities through both a concept the WHAT and a method the HOW 2 that in doing so it questions and challenges many of the traditional boundaries and offers a transdisciplinary epistemological paradigm leading to a new understanding of quality and thus also meaning truth and knowledge and 3 that translational phenomena are studied by a broad range of disciplines in the humanities including philosophy theology linguistics and anthropology using various often seemingly unrelated concepts which nevertheless display a considerable degree of qualitative proximity The common thread running through all these convictions and binding them together is the insistence that translational phenomena are ubiquitous Because of its unconventional and innovative approach this book will be of interest to translation studies scholars looking to situate their research within a broader transdisciplinary model as well as to students of translation programs and practicing translators who seek a fuller understanding of why and how translation matters Everything, Briefly Thomas O.

Scarborough,2022-06-14 As a man thinks so is he Personally and socially so is he Yet if this is true then as a man thinks has led us into the thick of global crisis What exactly is it about our thinking that fails us What has gone so wrong There are firm reasons why we may hope for new direction Firstly we have a new view of the connectedness of all things Never before has this encompassed so much It makes a crucial difference to philosophy Secondly when we recast philosophy s high level concepts in more concrete terms it becomes possible to discuss them without confusion This is the method of this book There is much of interest for the theologian too Legendary film director Ingmar Bergman once wrote What will happen to us who want to believe but can not His can not had to do with what Professor Karen Barad calls the hegemony of physics Everything Briefly details why it is impossible in fact to believe in a closed universe of cause and effect Creativity and Technology in

Mathematics Education Viktor Freiman,Janet Lynne Tassell,2018-09-03 This volume provides new insights on creativity while focusing on innovative methodological approaches in research and practice of integrating technological tools and environments in mathematics teaching and learning This work is being built on the discussions at the mini symposium on Creativity and Technology at the International Conference on Mathematical Creativity and Giftedness ICMCG in Denver USA 2014 and other contributions to the topic The book emphasizes a diversity of views a variety of contexts angles and cultures of thought as well as mathematical and educational practices The authors of each chapter explore the potential of technology to foster creative and divergent mathematical thinking problem solving and problem posing creative use of dynamic multimodal and interactive software by teachers and learners as well as other digital media and tools while widening and enriching transdisciplinary and interdisciplinary connections in mathematics classroom Along with ground breaking

innovative approaches the book aims to provide researchers and practitioners with new paths for diversification of opportunities for all students to become more creative and innovative mathematics learners A framework for dynamic learning conditions of leveraging mathematical creativity with technology is an outcome of the book as well

The SAGE Handbook of Curriculum, Pedagogy and Assessment Dominic Wyse, Louise Hayward, Jessica Pandya, 2015-12-03 The research and debates surrounding curriculum pedagogy and assessment are ever growing and are of constant importance around the globe With two volumes containing chapters from highly respected researchers whose work has been critical to understanding and building expertise in the field The SAGE Handbook of Curriculum Pedagogy and Assessment focuses on examining how curriculum is treated and developed and its impact on pedagogy and assessment worldwide The Handbook is organised into five thematic sections considering The epistemology and methodology of curriculum Curriculum and pedagogy Curriculum subjects Areas of the curriculum Assessment and the curriculum The curriculum and educational policy The SAGE Handbook of Curriculum Pedagogy and Assessment s breadth and rigour will make it essential reading for researchers and postgraduate students around the world

[The Routledge Handbook of Scientific Realism](#) Juha Saatsi, 2017-11-22 Scientific realism is a central long standing and hotly debated topic in philosophy of science Debates about scientific realism concern the very nature and extent of scientific knowledge and progress Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses Various realist theses are under sceptical fire from scientific antirealists e g empiricists and instrumentalists The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond The Routledge Handbook of Scientific Realism is an outstanding reference source the first collection of its kind to the key issues positions and arguments in this important topic Its thirty four chapters written by a team of international experts are divided into five parts Historical development of the realist stance Classic debate core issues and positions Perspectives on contemporary debates The realism debate in disciplinary context Broader reflections In these sections the core issues and debates presented analysed and set into broader historical and disciplinary contexts The central issues covered include motivations and arguments for realism challenges to realism from underdetermination and history of science different variants of realism the connection of realism to relativism and perspectivism and the relationship between realism metaphysics and epistemology The Routledge Handbook of Scientific Realism is essential reading for students and researchers in philosophy of science It will also be very useful for anyone interested in the nature and extent of scientific knowledge

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