HAWASSA UNIVERSITY

Collage of Natural and Computational Science Department of Mathematics

Work sheet -1

Basic Mathematics for Natural Sciences

(2014EC)

- 1. Show that the following propositions are equivalent
 - a) $(P \Rightarrow 0)$ and $\neg PVO$
- b) Pand PA (OV -O)
- 2. For statements p. q. and r. show that the following compound statements are tautology.
 - a) $(p \land (p \Rightarrow q)) \Rightarrow q$. b) $((p \Rightarrow q) \land (q \Rightarrow r)) \Rightarrow (p \Rightarrow r)$.
- Let p and a be statements. Which of the following implies that p ∨ a is false?
 - a. −p ∨ −q is false.

c. p => a is true.

b. ¬p v q is true.

- d. $p \land \neg q$ is true.
- 4. 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
 - (a) $R \Longrightarrow (s \land P)$

- $(c) O \land \neg S \Longrightarrow (P \Longleftrightarrow S).$
- (b) $P \Longrightarrow (R \Longrightarrow 5)$.

- (d) $(R \land S) \Rightarrow (P \Rightarrow \neg O \lor S)$
- a) If the value of P ⇒ Q, is F, then what is the truth value of (¬P∧Q) ⇔ (PVQ)?
 - b) If the value of P ⇔ Q is T, then what is the truth value of P ⇔ ¬Q and ¬P ⇔ Q?
 - c) If the value of P ← Q is F, then what is the truth value of P ← ¬Q and ¬P ← Q?
- 6. Find the truth value of following compound statements using the given information.
 - a) (p ⇒ q) ⇒ r, where r = T.

- c) $p \lor (q \Longrightarrow r)$, where r = T.
- b) $\neg (p \lor q) \Leftrightarrow (\neg p \land \neg q)$, where $p \lor q = T$. d) $(p \Rightarrow q) \Rightarrow (\neg q \Rightarrow \neg p)$, where q = T.

- e) $(p \land a) \Longrightarrow (p \lor s)$, where p = T.
- 7. Let P(x,y): $\frac{\pi}{c} < 1$, 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.
 - a) (∀x ∈ A)(∃y ∈ B)P(x, y).
 b) (∃x ∈ A)(∃y ∈ B)P(x, y).
 c) (∃y ∈ B)(∀x ∈ A)P(x, y).
- 8. Determine the truth value of the following statements.
 - a) (∃x ∈ R)(x² − x = 0).
- e) $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$.
- b) $(\forall x \in N)(x + 1 \ge 2)$.
- f) $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$

c) $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.

- e) $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x + y = 5)$
- d) $(\exists x \in \mathbb{Q})(3x^2 27 = 0)$.
- h) $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
- 9. Investigate the validity of the following argument forms using truth table method.
 - a) $-p \Longrightarrow -q, q \vdash p$.

 - $b) p \Rightarrow \neg p. p. r \Rightarrow q \vdash \neg r.$ c) $p \Rightarrow q. \neg r \Rightarrow \neg q \vdash \neg r \Rightarrow \neg p.$
- 10. Investigate the validity of the following argument forms using formal proof (rule of inference)
 - a) $-p \Longrightarrow -q, q \vdash p$.
- c) $\neg r \land \neg s, (\neg s \Rightarrow p) \Rightarrow r \vdash \neg p$.
- b) $p \Rightarrow -q, p, r \Rightarrow q \vdash -r$. d) $-q \Rightarrow -p, r \Rightarrow p, -q \vdash r$. e) $p \Rightarrow q, -r \Rightarrow -q \vdash -r \Rightarrow -p$.

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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 Problem Solving in Mathematics Instruction and Teacher students to become independent problem solvers for life 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 Educators' Work Integrated Learning Experiences Iman C. Chahine, Lalini can be your students are counting on it 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

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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 Everything, Briefly Thomas O. who seek a fuller understanding of why and how translation matters 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

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