

Part 1: Design

10 marks

1. **Identify listed issues:** List 'issues' in the group generated possible design ideas. Identify three ideas, providing as much detail as possible.
2. **Evaluate and design:** Select one idea and select one design idea and select one design idea based on the strengths of each member's idea.
3. **Design brief:** Write a design brief with detailed specifications for the final design idea, covering issues such as size, materials, safety, and functionality.
4. **Flow chart:** Write a flow chart to present with the design and construction phases, and each learner creates a flowchart to outline the steps to be taken.

Part 2: Planning and Making

10 marks

1. **Working drawings:** Each learner is responsible for creating detailed plan drawings for one aspect of the plan, using first angle orthographic projection. Ensure that you use a suitable scale, correct line types, and dimensions.
2. **Budget:** Prepare a budget for the 'real life' situation, including necessary materials and labour costs. Ensure that your budget is realistic and based on real market costs.
3. **Model:** Create a scale model of your final design idea. The model should be constructed using real materials and show intelligent use of materials, design practice, safety, when working with tools and materials.

Part 3: Evaluation

10 marks

1. **Evaluation instrument:** Collaborate as a team to create an evaluation instrument. The instrument will be used to assess your team's solution and another team's solution. The will use this during the presentation phase.

Part 4: Communication

10 marks

1. **Team Presentation:** Teams will present their model bid to the 'Tender board' (your teacher and classmates). Each team member must be responsible for presenting a specific aspect of the project. Your presentation should include drawings, plans, the budget, the model, and written responses.

Contractors

Design
Phase
1/2

10 marks



Printable

Name:

Class:

Grade 9 CAPS Technology

Mini-PAT

Community Issues – The Contractors

In this Mini-PAT (Practical Assessment Task), you will act as part of a contracting company competing for a contract to design and build a structure that addresses a problem facing a community. The project will focus on identifying a problem, investigating possible solutions, designing a structure, costing the project, and evaluating the final solution. You will be working in a group.

Instructions

Part 1: The Tender Process (including Ethical Practices)

10 marks

1. **Scenario Introduction:** A community lives on a major river's far bank. The river is wide and deep, preventing the people from reaching the city on the opposite side. This means that the people cannot take advantage of the work opportunities, the excellent medical and schools facilities, and the wide range of shops available in the city.

2. **Investigation:** Teams discuss possible structures to solve

ink saving Eco



Technology Mini Pat

Kaji Sritharan, Nigel Standfield



Technology Mini Pat:

Indigenous Technology Knowledge Systems Mishack T. Gumbo, P. John Williams, 2023-07-21 There has been a growing interest in indigenous knowledge systems and research This interest has been mainly triggered by the need to decolonize education as a response to the colonial onslaught on indigenous knowledge and people Research has however concentrated on the generality of the indigenous knowledge system rather than on its related dimensions One area that has suffered a lack of attention is indigenous conceptions of science technology engineering and mathematics STEM despite the unquestionable evidence of STEM in indigenous contexts Most STEM is presented by colonial establishments and representations especially in developed modern urban contexts which portray STEM as a colonial construct This book focuses on indigenous technological knowledge systems education ITKSE Indigenous people have been at the front of technological developments from pre colonial times The list of precolonial industries science and technology is extensive including blacksmithing wood carving textile weaving and dyeing leather works beadworks pottery making architecture agricultural breeding metal working salt production gold smithing copper smithing leather crafting soap making bronze casting canoe building brewing glass making and agriculture for example In some parts of the world such as Africa and Australia these technologies still exist ITKSE should not be left to exist outside of the technology education curriculum and classroom as it can benefit both indigenous students who have been denied learning about what is relevant to them and non indigenous students These cultural groups can expand their knowledge of technology by learning both ITKSE and Western technological knowledge systems education WTKSE ITKSE also presents opportunities for technology teachers to reflect on and revisit their depth of technological knowledge pedagogies and assessment The intent of this book is transformational in the sense that it brings decolonial and indigenous perspectives into the technology education context It extends technology education in the sense that it will not only influence Western minded architects artisans designers etc but encourage indigenous mindedness as well

Cognition, Education, and Communication Technology PETER GARDENFORS, Petter Johansson, 2014-04-08 Cognition Education and Communication Technology presents some of the recent theoretical developments in the cognitive and educational sciences and implications for the use of information and communication technology ICT in the organization of school and university education Internationally renowned researchers present theoretical perspectives with proposals for and evaluations of educational practices Each chapter discusses different aspects of the use of ICT in education including the role of perceptual processes in learning external cognition as support for interactive learning the role of meta cognition simulation learning environments as cognitive tools the role of science controversy for knowledge integration the use of ICT in the development of educators and the role of narratives in education ICT has great potential for revolutionizing education Large investments of resources are being made often without a strong understanding of how ICT will or should be implemented The expectation is that students will show immediate improvements

in terms of their motivation to learn and their learning achievements but reality is different Progress of ICT in education requires more than just computers in the classroom It demands an understanding of the complex processes contributing to human learning and how they interact with new technologies This text provides theoretical perspectives on the learning processes that can be used as a foundation for constructing pedagogically valuable tools based on ICT The combination of results from cognitive science and pedagogy with more practically oriented suggestions for how ICT can be used in various forms of education makes this book suitable for researchers and students in the cognitive and educational sciences as well as for practitioners and planners of education The Dawn of New Technology ,1987 **Handbook of Analytical**

Techniques in Concrete Science and Technology V.S. Ramachandran,J.J. Beaudoin,2000-11-01 Measuring the long term durability of new types of concrete and concrete technologies is crucial to their acceptance in the marketplace This long needed handbook of analytical techniques provides a complete reference to the cutting edge procedures used to test today s innovative materials Ranging from chemical and thermal analysis to IR and Nuclear Magnetic Resonance spectroscopy to Scanning Electron Microscopy x ray diffraction computer modeling and more the book provides first hand explanations of modern methods contributed by 24 leading scientists many of whom actually developed or refined the techniques The book includes many analytic techniques applied to a wide range of organic inorganic and composite materials and additives Perfect for practitioners students and professional standards writers the handbook is highly useful for scrutinizing materials in a variety of environments It takes into account the many factors that affect the qualities of concrete temperature pore and pore size distribution surface area and exposure gathering diverse evaluation methods into one convenient resource

Continuous Pharmaceutical Processing and Process Analytical Technology Ajit S. Narang,Atul Dubey,2023-03-01 Continuous manufacturing of pharmaceuticals including aspects of modern process development is highlighted in this book with both the why and the how emphasizing process modeling and process analytical technologies Presenting specific case studies and drawing upon extensive experience from industry and academic opinion leaders this book focuses on the practical aspects of continuous manufacturing It gives the readers the strategic perspective and technical depth needed to adopt and implement these technologies where appropriate in order to gain the competitive edge in speed agility and reliability Features Discusses scientific solutions and process analytical technology to enable continuous manufacturing in the development of new drugs Includes short stories about how some companies have adopted CM and what their drivers were and what benefits were realized Addresses economic and practical considerations unlike many other technical books Emphasizes the practical aspects to give the reader the strategic imperative and technological depth to adopt and implement these technologies Highlights the why and the how focusing on the need analysis and process modeling and process analytical technologies *Routledge International Handbook of Medical Education* Khalid Abdulrahman,Stewart Mennin,Ronald Harden,Catherine Kennedy,2015-07-16 Twenty first century medical schools postgraduate bodies and other

medical education organisations are responding to rapid advances in medicine healthcare delivery educational approaches and technology and globalisation Differences in geography culture history and resources demand diversity amongst educational systems This important volume is designed to help medical educators working in today s challenging circumstances by providing an overview of best practices and research in medical education Routledge International Handbook of Medical Education provides a practical guide to and theoretical support for the major education challenges facing teachers managers and policy makers around the world Highlighting how resources can be used to provide effective and sustainable responses to the key issues facing medical educators the handbook offers a truly international perspective of best practices with contributing editors and authors from around the globe Routledge International Handbook of Medical Education recognises the need to maintain established best practices when appropriate and to respond adaptively to cultural differences and local conditions facing medical education This topical book deals with the key challenges facing medical education by the different stakeholders including selection and admission of students to study medicine competences necessary for graduates to enable them to recognize and address emerging health issues and policies teaching and learning processes that are necessary to meet tomorrow s challenges approaches to assessment including the integration of assessment and learning design and management of complex curricula that provide educational strategies to meet regional and global problems A unique diverse and illustrative resource of best practices in medical education the handbook is stimulating reading for all educators of present and future health care professionals

Advances in Nuclear Science and Technology Ernest J. Henley, 2012-12-06 The present volume in our annual review series reviews a wide range of developments giving a broad interpretation to the technology of our title Starting at the beginning Science we have the review of basic nuclear physics data of Walker and Weaver for reactor kinetics particularly there fore delayed neutron data In the search for better and better accuracy it is being realized that this involves the closest scrutiny of fundamental data given to us here from the Birmingham school Associated with this review of data is the review from Italy by Professor Pacilio and his co workers of the theory of reactor kinetics in the stochastic form and a valuable compilation of the theory underlying a wide range of practical techniques Tending more to technology come the papers by Jervis reviewing the application of digital computers to the control of large nuclear power stations as developed in both the united Kingdom and Canada Pickman s review of the design of fuels for heavy water reactors and the account by Ishi kawa and Inabe of the new Japanese Research Reactor Program itself initially directed largely to fuel element studies The balance of the volume is made up of more philoso phical contributions to the practicalities of nuclear power

Teaching, Coaching and Mentoring Adult Learners Heather Fehring, Susan Rodrigues, 2016-11-03 The challenge for those coaching mentoring supervising or teaching adults is to design and deliver high quality programmes that encompass a blend of teaching and learning approaches and strategies that are constructed for adult learners in multiple educational environments and that cater for the diversity of

adult learners needs Adult learners are complex individuals who come to the learning process with a multitude of different experiences Teaching Coaching and Mentoring Adult Learners helps practitioners step up to this challenge by developing the skills needed to share their expertise with adult learners and engage them in new transformative practices This book also forms a timely contribution to the current period of evolution in adult education where extreme changes in the nature and scope of work and the globalisation of work and life are influencing learning The shift in adult education addressed in this book includes the globalisation of the workforce and the cultural impact on adult tertiary and further education the relationship established between adult educators and adult learners provision of adult education and professional development by private and major multimedia and corporate interests occupations boundaries between professions and between skilled and unskilled work assessing adult learners needs and adapting strategies to meet the perceived needs of adult learners in medicine education psychology and industry designing learning experiences to maximise the processing of complex conceptual knowledge and then transforming the knowledge to fit new learning environments the role of new technologies of learning in adult and vocational learning This book provides research based insight into the expectations and the value of the coach mentor tutor and supervisor roles and combines research with strategic guidance to support the implementation of innovative techniques through case studies strategies and methodologies in teaching and learning in higher education and professional learning Bringing together insights from an expert range of international contributors this text will be invaluable to higher education professionals and those involved in supervising coaching and mentoring in the workforce **New Zealand Journal of Dairy Science and Technology** ,1975 The Doctor's Handbook Tony

White,2010 Many doctors do not receive training early in their careers on the broad range of non clinical aspects of their work and confront day to day issues for which initial medical education has failed to prepare them Experienced doctors and consultants can also experience a similar lack of accessible reference material on these aspects of their role and for the non clinical training of their juniors This book and its companion volume The Doctor s Handbook Part 1 managing your role beyond clinical medicine have been written to address these and other needs Previously published as The Specialist Registrar and New Consultant Handbook these completely revised and reconfigured volumes reflect the changing everyday work of specialist trainees registrars and consultants Topics covered in Volume 2 include Urolithiasis Jamsheer J. Talati,Hans-Goran Tiselius,David M. Albala,ZHANGQUN YE,2012-12-22 Urolithiasis Basic Science and Clinical Practice is a comprehensive text that assists urologists in defining the best choice of treatment for each case through a balanced presentation of underlying science diagnostic methods and practical tips with additional discussions on educational issues costs and management of resources This user friendly practical resource is replete with full color illustrations and radiographs covering all aspects of stone disease and offering perspectives from Europe the Americas China South Asia Africa and Australia Topics include the biochemical and physiological basis of stone formation treatment options

complications assessment of techniques and technologies available and guidelines on the prevention of stone recurrence Urolithiasis Basic Science and Clinical Practice is the definitive text on stone disease and is a must read for young consultants starting a new practice and urologists in residence and training

Oxford Handbook of Medical Education in Practice, 2024-11-21 The Oxford Handbook of Medical Education in Practice is a practical easy to read guide on medical education for busy doctors and healthcare professionals Tailored for medical practitioners at all levels who wish to engage in education but may lack the time or expertise for in depth research this handbook offers practical advice alongside case studies and scenarios based on experts educational experiences The chapters have been designed to follow an easy to navigate structure and can be read in isolation or sequentially as part of a broader more comprehensive exploration of the field of medical education The handbook contains the accessible features you would expect from the Oxford Medical Handbook series including lists tables figures and pop out boxes It is a portable guide quickly referenced and applied particularly when teaching opportunities arise spontaneously Drawing on the expertise of experienced scholars and educators internationally and across stages of their educational and academic careers this comprehensive volume offers advice within the key domains of medical education These include curriculum design assessment learning strategies clinical teaching educational theory and the integration of technology In addition to its focus on educational practice this handbook should also appeal to those exploring medical education research for the first time either as readers of research or researchers themselves given the inclusion of content on conducting medical education research In sum by synthesising foundational research and practical wisdom the Oxford Handbook of Medical Education in Practice offers readers an opportunity to develop their understanding of the principles and practices that shape contemporary medical education In doing so we hope readers will feel empowered to make evidence and experience based changes to their educational practice to improve learners and patients experiences of education and care

Food Technology Murlidhar Meghwal, Megh R. Goyal, Mital J. Kaneria, 2017-08-22 In this era of climate change and food water natural resource crises it is important that current advancements in technology are made taking into consideration the impact on humanity and the environment This new volume Food Technology Applied Research and Production Techniques in the Innovations in Agricultural and Biological Engineering book series looks at recent developments and innovations in food technology and sustainable technologies Advanced topics in the volume include food processing preservation nutritional analysis quality control and maintenance as well as good manufacturing practices in the food industries The chapters are highly focused reports to help direct the development of current food and agriculture based knowledge into promising technologies Features provides information on relevant technology makes suggestions for equipment and devices looks at standardization in food technology explores new and innovative packaging technology studies antimicrobial activities in food considers active constituents of foods and provides information about isolation validation and characterization of major bioactive constituents discusses the effect of

laws and regulatory guidelines on infrastructure to transform technology into highly value added products Food Technology Applied Research and Production Techniques will be a very useful reference book for food technologists practicing food engineers researchers professors students of these fields and professionals working in food technology food science food processing and nutrition

Understanding Medical Education Tim Swanwick, Kirsty Forrest, Bridget C. O'Brien, 2018-10-02 Created in partnership with the Association for the Study of Medical Education ASME this completely revised and updated new edition of Understanding Medical Education synthesizes the latest knowledge evidence and best practice across the continuum of medical education Written and edited by an international team this latest edition continues to cover a wide range of subject matter within five broad areas Foundations Teaching and Learning Assessment and Selection Research and Evaluation and Faculty and Learners as well as featuring a wealth of new material including new chapters on the science of learning knowledge synthesis and learner support and well being The third edition of Understanding Medical Education Provides a comprehensive and authoritative resource summarizing the theoretical and academic bases to modern medical education practice Meets the needs of all newcomers to medical education whether undergraduate or postgraduate including those studying at certificate diploma or masters level Offers a global perspective on medical education from leading experts from across the world Providing practical guidance and exploring medical education in all its diversity Understanding Medical Education continues to be an essential resource for both established educators and all those new to the field

NHS Jargon Explained Tony White, 2010 An up to date clearly explained glossary of acronyms and terminology used at all levels of the NHS

Safer Surgery Lucy Mitchell, Rhona Flin, 2017-05-15 Operating theatres are very private workplaces There have been few research investigations into how highly trained doctors and nurses work together to achieve safe and efficient anaesthesia and surgery While there have been major advances in surgical and anaesthetic procedures there are still significant risks for patients during operations and adverse events are not unknown Due to rising concern about patient safety surgeons and anaesthetists have looked for ways of minimising adverse events Behavioural scientists have been encouraged by clinicians to bring research techniques used in other industries into the operating theatre in order to study the behaviour of surgeons nurses and anaesthetists Safer Surgery presents one of the first collections of studies designed to understand the factors influencing safe and efficient surgical anaesthetic and nursing practice The book is written by psychologists surgeons and anaesthetists whose contributions combine to offer readers the latest research techniques and findings from some of the leading investigators in this field It is designed for practitioners and researchers interested in understanding the behaviour of operating theatre team members with a view to enhancing both training and practice The material is also suitable for those studying behaviour in other areas of healthcare or in high risk work settings The aims of the book are to a present the latest research on the behaviour of operating theatre teams b describe the techniques being used by psychologists and clinicians to study surgeons anaesthetists and theatre nurses task performance c outline the safety

implications of the research to date **Technology Assessment & Forecast** ,1976 Technology Assessment & Forecast
United States. Patent and Trademark Office. Office of Technology Assessment and Forecast,1975 **International Best Practices for Evaluation in the Health Professions** William McGaghie,2022-02-16 This unique text presents a comprehensive narrative on why and how health professions students need to be evaluated for practice in the 21st century It systematically addresses current evaluation best practices in the health professions to identify today's evaluation benchmarks reveal evaluation limits address improvement pathways and map a research agenda to boost future evaluation practices Advancements in information and communication technology bioscience and behavioral research and worldwide travel are dissolving barriers that have separated professions countries and cultures for centuries This book both celebrates these achievements and carefully considers next steps It recognizes the huge improvements made in evaluation practices within the health professions over the past 40 years but asks for more calling for added reform and better understanding of current practice from different social cultural and educational perspectives International Best Practices for Evaluation in the Health Professions values crossprofessional programs that span boundaries and acknowledge the authority of the future rather than historical baggage Educators worldwide will be enlightened and inspired by its straightforward compelling narrative **Get Through Postgraduate Medical Interviews** Kaji Sritharan,Nigel Standfield,2008-06-02 Get Through Postgraduate Medical Interviews aims to forearm candidates with practical advice on how to maximise their chances of success in the postgraduate medical interview Following short listing the interview is the final and often the toughest hurdle standing between a candidate and their career path of choice For many candidates there will

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Technology Mini Pat Introduction

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