

Part 1: Design

10 marks

1. **Identify listed issues:** List 3 issues in the given scenario possible design ideas. Identify three ideas, providing as much detail as possible.
2. **Evaluate and design:** Select one idea and identify a design idea and identify a design idea based on the scenario of each scenario'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 phase, and each issue is a flowchart to outline the steps to be taken.

Part 2: Planning and Making

10 marks

1. **Working drawings:** List 3 issues in the given scenario possible design ideas for an aspect of the plan, using first angle orthographic projection. Draw that you can a suitable scale, correct line types, and dimensions.
2. **Budget:** Prepare a budget for the "final design" solution, including necessary materials and labour costs. Draw that you budget is suitable and based on real market costs.
3. **Model:** Build 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 statement:** Write a statement as a team to evaluate the solution. The statement 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 solution to the "final design" (your teacher and classmates). Each team member must be responsible for presenting a specific aspect of the project. Your presentation should include the design, plan, the budget, the model, and suitable responses.

Contractors

Design
Phase
1/2

10 marks



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 Grade 9 Mini Pat 2015

**Omar Sultan Al-Kadi,Xujiong
Ye,Giorgio Russo,Joseph Ross Mitchell**

Technology Grade 9 Mini Pat 2015:

Comprehensive Chemometrics Steven Brown, Roma Tauler, Beata Walczak, 2020-05-26 Comprehensive Chemometrics Second Edition Four Volume Set features expanded and updated coverage along with new content that covers advances in the field since the previous edition published in 2009. Subject of note includes updates in the fields of multidimensional and megavariate data analysis, omics data analysis, big chemical and biochemical data analysis, data fusion and sparse methods. The book follows a similar structure to the previous edition using the same section titles to frame articles. Many chapters from the previous edition are updated but there are also many new chapters on the latest developments. Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals. Bridges a gap in knowledge covering developments in the field since the first edition published in 2009. Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily. Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience. Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals. Bridges a gap in knowledge covering developments in the field since the first edition published in 2009. Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily. Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience.

Metal-Crucible Interactions Nagaiyar Krishnamurthy, 2022-08-05 Metal Crucible Interactions suggests solutions to a major challenge in high temperature materials processing. It offers a holistic presentation of the current knowledge of metal crucible interactions in a compact volume so that readers can make informed decisions on materials selection. Presenting practical information, this book provides an extensive summary of the compatibility of a huge variety of metal container combinations, assembles information about all known significant interactions and evaluates how they are managed. Explains the underlying reasons for the occurrence and extent of incompatibility between metals and containment and presents some possible solutions. Outlines analytical experimental techniques to quantify compatibility. Incompatibility covers issues and resolution in interrelated solid-solid, solid-liquid, solid-gas and solid-liquid-gas processes determining compatibility. Discusses all the metals: ferrous, common non-ferrous, reactive and refractory metals, rare earths and the important alloys as well as compounds and special compositions that tend to degrade or remain prone to degradation due to compatibility issues. Highlights the value of addressing all interrelated issues in arriving at reliable solutions to compatibility challenges. Aimed at readers in industries dealing with materials processing at high temperatures, research scientists and engineers and graduate students, this book addresses a topic vital to stimulating immediate and long term research and development in ways not previously covered in

other books **Advanced Biofuel Technologies** Deepak K. Tuli, Sangita Kasture, Arindam Kuila, 2021-12-08 Advanced Biofuel Technologies Present Status Challenges and Future Prospects deals with important issues such as feed stock availability technology options greenhouse gas reduction as seen by life cycle assessment studies regulations and policies This book provides readers complete information on the current state of developments in both thermochemical and biochemical processes for advanced biofuels production for the purpose of transportation domestic and industrial applications Chapters explore technological innovations in advanced biofuels produced from agricultural residues algae lipids and waste industrial gases to produce road transport fuels biojet fuel and biogas Covers technologies and processes of different types of biofuel production Outlines a selection of different types of renewable feedstocks for biofuel production Summarizes adequate and balanced coverage of thermochemical and biochemical methods of biomass conversion into biofuel Includes regulations policies and lifecycle and techno economic assessments *Food Hydrocolloids as Encapsulating Agents in Delivery Systems* Adil Gani, F.A. Masoodi, Umar Shah, Shah Asima, 2019-06-07 This book addresses the use of food hydrocolloids as agents for encapsulating biological active ingredients It details the challenges of poorly controlled rate of hydration thickness decrease in viscosity upon storage and susceptibility to microbial contamination Food Hydrocolloids as Encapsulating Agents in Delivery Systems briefly describes various emerging biomaterials including food gums starches beta glucans and proteins for their potential role as wall material in the development of nutraceutical delivery systems Further it describes different techniques of fabrication of nanodelivery systems Features Provides an introduction to food hydrocolloids as encapsulating agents Covers starches and their derivatives as delivery systems Includes gum based delivery systems Discusses the classification isolation and purification of protein delivery systems This book would be helpful to food scientists and pharmaceutical scientists working in areas including nanotechnology polymer chemistry and nutraceutical delivery as well as regulators and government researchers in US FDA USDA and UK FSA regulatory agencies **Literacy Assessment and Intervention for Classroom Teachers** Beverly A. DeVries, 2023-04-25 The Sixth Edition of this comprehensive resource helps future and practicing teachers recognize and assess literacy problems while providing practical effective intervention strategies to help every student succeed DeVries thoroughly explores all major components of literacy offering an overview of pertinent research suggested methods and tools for diagnosis and assessment intervention strategies and activities and technology applications to increase students skills Substantively updated to reflect the needs of teachers in increasingly diverse classrooms the Sixth Edition addresses scaffolding for English language learners and the importance of using technology and online resources It presents appropriate instructional strategies and tailored teaching ideas to help both teachers and their students The valuable appendices feature assessment tools instructions and visuals for creating and implementing the book s more than 150 instructional strategies and activities plus other resources New to the Sixth Edition Up to date and in line with national state and district literacy standards this edition covers the latest shifts in teaching and

the evolution of these standards New material on equity and inclusive literacy instruction understanding the science of reading using technology effectively and reading and writing informational and narrative texts New intervention strategies and activities are featured in all chapters and highlight a stronger technology component Revamped companion website with additional tools videos resources and examples of teachers using assessment strategies Computational Radiomics for Cancer Characterization Omar Sultan Al-Kadi,Xujiong Ye,Giorgio Russo,Joseph Ross Mitchell,2022-10-21 **Amplifying Informal Science Learning** Judy Diamond,Sherman Rosenfeld,2023-06-30 This collection explores the broad landscape of current and future out of school science learning environments Written by leading experts and innovators in informal science learning these thoughtful and critical essays examine the changing nature of informal institutions such as science museums zoos nature centers planetariums aquaria and botanical gardens and their impact on science education The book examines the learning opportunities and challenges created by community based experiences including citizen science makerspaces science media escape rooms hobby groups and gaming Based on current practices case studies and research the book focuses on four cross cutting themes inclusivity digital engagement community partnerships and bridging formal and informal learning to examine how people learn science informally The book will be of interest to STEM science technology engineering and math educators both in and out of school designers of science and experiential education programs and those interested in building STEM learning ecosystems in their communities *Pediatric Neuro-oncology* Katrin Scheinemann,Eric Bouffet,2024-10-22 While the first edition of this book provided a succinct introduction to pediatric neuro oncology biological knowledge of childhood CNS tumors has exploded over the past few years and a new edition of this textbook is needed to keep it up to date This updated edition will include chapters on cancer predisposition in children with brain tumors gliomas embryonal brain tumors ependymoma CNS GCT targeted therapies in pediatric brain tumors and long term sequelae New developments covered include the following Techniques like DNA methylation have improved the diagnostic process and have led to an integrated diagnosis of histology ICH and methylation Tumor pathways have been detected which defines more subgroups within a tumor entity and results in more individualized treatment for the patient Therapeutic options outside the standard combination of surgery chemotherapy and radiation have either been implemented within the last years or are currently under consideration This book will be aimed at pediatric oncologists and neurooncologists neurosurgeons radiation oncologists Chapters detailing quality of life and supportive care will make this 2nd edition a useful resource for nurses social workers physiotherapists and occupational therapists alike Health Promotion Throughout the Life Span - E-Book Carole Lium Edelman,Elizabeth Connelly Kudzma,2017-07-25 Promote health and wellness for all ages and population groups Health Promotion Throughout the Life Span 9th Edition provides a comprehensive guide to leading health promotion concepts from assessment to interventions to application Its lifespan approach addresses patients unique needs with case studies and care plans with an assessment framework based on Gordon

s Functional Health Patterns New to this edition is expanded coverage of genomics and QSEN competencies Written by nursing experts Carole Edelman and Elizabeth Kudzma this bestselling text covers all the latest research and trends in health promotion and disease prevention Separate chapters on population groups the individual family and community highlight the unique aspects of assessment and health promotion for each group Coverage of growth and development helps you apply health promotion concepts to each age and each stage of development through the lifespan Case studies present realistic situations with questions asking you to apply key concepts and care plans include nursing diagnoses defining characteristics related factors expected outcomes and interventions Quality and Safety Scenario boxes focus on QSEN related competencies with examples of health promotion Innovative Practice boxes outline unique and creative health promotion programs and projects currently being implemented Healthy People 2020 boxes present goals and objectives relating to national health issues and priorities Research for Evidence Based Practice boxes summarize current health promotion studies showing the links between research theory and practice Diversity Awareness boxes address cultural perspectives relating to planning care Hot Topics boxes introduce significant issues trends and controversies in health promotion Think About It clinical scenarios open each chapter and include questions to encourage critical thinking NEW An increased focus on genomics reflects scientific evidence supporting the use of genetic tests and family health history to guide public health interventions NEW Expanded discussion of QSEN competencies is included as related to health promotion NEW Guidelines and recommendations are included from the latest Guide to Clinical Preventive Services from the U S Preventive Services Task Force NEW The latest information about the Affordable Care Act is included NEW Updated photos reflect the latest in health promotion and disease prevention Current Awareness in Particle Technology ,1986 **Working Mother** ,2000-10 The magazine that helps career moms balance their personal and professional lives *Children's Books in Print* ,2007 ,2006

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Hofstra Property Law Journal ,1993 **Ceramic Age** ,1935 Government Reports Annual Index ,1981 Sections 1 2

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NTIS order report number index 1 E Section 6 NTIS order report number index F Z

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Table of Contents Technology Grade 9 Mini Pat 2015

1. Understanding the eBook Technology Grade 9 Mini Pat 2015
 - The Rise of Digital Reading Technology Grade 9 Mini Pat 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Technology Grade 9 Mini Pat 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Technology Grade 9 Mini Pat 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Technology Grade 9 Mini Pat 2015

- Personalized Recommendations
- Technology Grade 9 Mini Pat 2015 User Reviews and Ratings
- Technology Grade 9 Mini Pat 2015 and Bestseller Lists
- 5. Accessing Technology Grade 9 Mini Pat 2015 Free and Paid eBooks
 - Technology Grade 9 Mini Pat 2015 Public Domain eBooks
 - Technology Grade 9 Mini Pat 2015 eBook Subscription Services
 - Technology Grade 9 Mini Pat 2015 Budget-Friendly Options
- 6. Navigating Technology Grade 9 Mini Pat 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Technology Grade 9 Mini Pat 2015 Compatibility with Devices
 - Technology Grade 9 Mini Pat 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Technology Grade 9 Mini Pat 2015
 - Highlighting and Note-Taking Technology Grade 9 Mini Pat 2015
 - Interactive Elements Technology Grade 9 Mini Pat 2015
- 8. Staying Engaged with Technology Grade 9 Mini Pat 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Technology Grade 9 Mini Pat 2015
- 9. Balancing eBooks and Physical Books Technology Grade 9 Mini Pat 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Technology Grade 9 Mini Pat 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Technology Grade 9 Mini Pat 2015
 - Setting Reading Goals Technology Grade 9 Mini Pat 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Technology Grade 9 Mini Pat 2015

- Fact-Checking eBook Content of Technology Grade 9 Mini Pat 2015
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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