

# Grade11 Life sciences Practical task

## Instructions

1. Read the given reader below and understand it so that you may answer the questions that will follow below.
2. Answer each question's; don't leave any question unanswered if you do so you will be penalised.
3. If you didn't write the work you will get zero and you won't do the practical in class.
4. After the practical you will submit your work in class.
5. This practical will also prepare you for the exam that is about to come in November

### Practical 1: Dissection of a sheep heart

#### Heart Dissection Walk Through :

The heart dissection is probably one of the most difficult dissections you will do. Part of the reason it is so difficult to learn is that the heart is not perfectly symmetrical, but it is so close that it becomes difficult to discern which side you are looking at (dorsal, ventral, left or right). Finding the vessels is directly related to being able to orient the heart correctly and figuring out which side you are looking at.

The heart is also difficult because the fatty tissue that surrounds the heart can obscure the openings to the vessels. This means that you really must experience the heart with your hands and feel your way to find the openings. Many people will be squeamish about this, and because the heart is slippery, it is easy to drop. Don't be shy with the heart; use your fingers to feel your way through the dissection.

#### 1. Step One: Orientation

When you first remove your heart from the bag, you will see a lot of fatty tissue surrounding it. It is usually a waste of time to try to remove this tissue. You may also want to arm yourself with some kind of markers for the parts you find, colour pencils work great to identify a vessel and you will see many used to mark openings on the heart.

There are a few clues to help you figure out the left and the right side, but often the packaging and preserving process can cause the heart to be misshapen. If you are lucky, the heart will be nicely preserved and you will see that the front (ventral) side of the heart has a couple of key features:

- 1) a large **pulmonary trunk(artery)** that extends off the top of it
- 2) the flaps of the **auricles** covering the top of the **atria**.
- 3) the **curve** of the entire **front side**, whereas the **backside** is much **flatter**.

# Grade 11 Practical Life Sciences 2014

**RJ Alexander**



## **Grade 11 Practical Life Sciences 2014:**

Mineral Resources, Grade 11 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-25 What if you could challenge your eleventh graders to come up with a design solution for developing managing and utilizing mineral resources With this volume in the STEM Road Map Curriculum Series you can Mineral Resources outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary three lesson module uses project and problem based learning to help students develop an in depth understanding of mineral resources by researching the utility and impact of particular mineral resources on society Working in teams students will locate quantitative and qualitative data on mineral resources and discern the reliability of the information then use their data to write an opinion article and develop a website to convince readers of the effectiveness of a particular design solution for developing managing and utilizing mineral resources To support this goal students will do the following Explain how mineral resources are located and used in various ways in society Explain why mineral resources are important to society Critically evaluate quantitative and qualitative data about mineral resources Write an opinion article demonstrating their knowledge about competing design solutions for extracting mineral resources The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Mineral Resources can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach **Models of Modern Information Economy** Alexander P. Sukhodolov, Elena G. Popkova, Tatiana N. Litvinova, 2018-10-29 This book determines the basic characteristics of an information economy and studies the main stages of information economy development It offers a fresh perspective on the concept of modern information economy while providing a new theoretical model that supports the development of a well balanced information economy Multi-omic Data Integration Paolo Tieri, Christine Nardini, Jennifer Elizabeth Dent, 2015-09-17 Stable predictive biomarkers and interpretable disease signatures are seen as a significant step towards personalized medicine In this perspective integration of multi omic data coming from genomics transcriptomics glycomics proteomics metabolomics is a powerful strategy to reconstruct and analyse complex multi dimensional interactions enabling deeper mechanistic and medical insight At the same time there is a rising concern that much of such different omic data although often publicly and freely available lie in databases and repositories underutilised or not used at all Issues coming from lack of standardisation and shared biological identities are also well known From these considerations a novel pressing request arises from the life sciences to design methodologies and approaches that allow for these data to be interpreted as a whole i e as intertwined molecular signatures containing genes proteins mRNAs and miRNAs able to capture inter layers connections and complexity Papers discuss data integration

approaches and methods of several types and extents their application in understanding the pathogenesis of specific diseases or in identifying candidate biomarkers to exploit the full benefit of multi omic datasets and their intrinsic information content Topics of interest include but are not limited to Methods for the integration of layered data including but not limited to genomics transcriptomics glycomics proteomics metabolomics Application of multi omic data integration approaches for diagnostic biomarker discovery in any field of the life sciences Innovative approaches for the analysis and the visualization of multi omic datasets Methods and applications for systematic measurements from single undivided samples comprising genomic transcriptomic proteomic metabolomic measurements among others Multi scale approaches for integrated dynamic modelling and simulation Implementation of applications computational resources and repositories devoted to data integration including but not limited to data warehousing database federation semantic integration service oriented and or wiki integration Issues related to the definition and implementation of standards shared identities and semantics with particular focus on the integration problem Research papers reviews and short communications on all topics related to the above issues were welcomed

The Logic of the Spirit in Human Thought and Experience Keith J White, Dana R Wright, 2015-02-26 In March 2012 a small consultation convened on the campus of Princeton Theological Seminary where James E Loder Jr had served for forty years as the Mary D Synnott Professor of the Philosophy of Christian Education Members from the Child Theology Movement had begun to read Loder s work and they wanted to go further So they invited former students of Loder s to meet with them for conversations about things that really mattered to them and to Loder human beings and especially children the church s witness to the gospel of Jesus Christ and discerning the work of Spiritus Creator in the postmodern world The conversations proved rich and rewarding and some would even say they took on a life of their own serious scholarship set to the music of the Spirit s communion creating artistry forming new relationships inspiring new ideas and sustaining all of it amid much laughter joy and hope These essays taken from the papers delivered at the consultation are offered as a means of extending that conversation inspired by Loder s interdisciplinary practical theological science and his discernment of the

**Beating Captain Najork** Todd R. Nelson, 2006-11-12 Weekly columns by an elementary school principal during his six years in a small town in Maine

Educating Science Teachers for Sustainability Susan K. Stratton, Rita Hagevik, Allan Feldman, Mark Bloom, 2015-06-18 This volume contains a unique compilation of research and reflections representing multiple vantage points stemming from different parts of the world that can help science educators and teacher educators in finding ways to meaningfully and purposefully embed sustainability into teaching and learning It is a rich resource for exploring and contextualizing sustainability oriented science education At this time we find ourselves in a situation in which the earth s ecological system is under significant strain as a result of human activity In the developed world people are asking How can we maintain our current standard of living while those in the developing world are asking How can we increase the quality of our lives all while trying to do what is necessary to mitigate

the environmental problems This volume responds to these questions with a focus on educating for sustainability including historical and philosophical analyses and pedagogical and practical applications in the context of science teacher preparation Included are many examples of ways to educate science teachers for sustainability from authors across the globe This text argues that issues of sustainability are increasingly important to our natural world built world national and international economics and of course the political world The ideas presented in the book provide examples for original effective and necessary changes for envisioning educating science teachers for sustainability that will inform policy makers

**Science Education and Curriculum in South Africa** Oscar Koopman,2016-11-01 This book explores the impact of the socio historical political and economic environment in South Africa both during and after Apartheid During this time the South African education system demonstrated an interest in a specific type of knowledge which Koopman refers to as a science of government This science of government leaves the learners with a blurred understanding of science that is disconnected from external nature and human nature and is presented as a series of abstract concepts and definitions The book also investigates the dialectical tensions between the science curriculum and the role of the teacher as an active implementer of the curriculum The book draws on the work of various phenomenological scholars namely Edmund Husserl Martin Heidegger Merleau Ponty and Max van Manen to discuss these tensions

**Teaching Secondary Science** Keith Ross,Liz Lakin,Janet McKechnie,Jim Baker,2015-06-19 The fourth edition of Teaching Secondary Science has been fully updated and includes a wide range of new material This invaluable resource offers a new collection of sample lesson plans and includes two new chapters covering effective e learning and advice on supporting learners with English as a second language It continues as a comprehensive guide for all aspects of science teaching with a focus on understanding pupils alternative frameworks of belief the importance of developing or challenging them and the need to enable pupils to take ownership of scientific ideas This new edition supports all aspects of teaching science in a stimulating environment enabling pupils to understand their place in the world and look after it Key features include Illustrative and engaging lesson plans for use in the classroom Help for pupils to construct new scientific meanings M level support materials Advice on teaching difficult ideas in biology chemistry physics and earth sciences Education for sustainable development and understanding climate change Managing the science classroom and health and safety in the laboratory Support for talk for learning and advice on numeracy in science New chapters on e learning and supporting learners with English as a second language Presenting an environmentally sustainable global approach to science teaching this book emphasises the need to build on or challenge children s existing ideas so they better understand the world in which they live Essential reading for all students and practising science teachers this invaluable book will support those undertaking secondary science PGCE school based routes into teaching and those studying at Masters level

**Neonatal Care for Nurses and Midwives** Victoria Kain,Trudi Mannix,2022-11-08 Increased focus on international data evidence based research and exemplars for the principles of best practice New chapters Care of

the normal newborn Care of the neonate with congenital abnormality Extensively revised content on neonatal nutrition and fluid management      **Leadership Competencies Of A Clinical Trial Project Manager** John Petrera,2024-06-17

Leadership competencies of a clinical trial project manager is unique in that this qualitative inquiry research project not only explores the specific top leadership competencies of project managers involved in pharmaceutical clinical trials but the concepts reviewed in this book are applicable broad spectrum to multiple professional fields The proposed leadership framework combines elements of leadership competencies project management competencies personal competencies and includes a review of the leadership types from the traits theory of leadership The leadership concepts described are universal and can be applied to improve any leader s abilities While this book focuses on clinical trial project managers the concepts and best practices apply to all PMs within pharmaceuticals or in any other field The derived PM competency framework is transferrable to PMs in numerous industries and may also provide applicable guidance to others regardless of their profession Ultimately the expansion of the PM triangle is a useful concept that many will find interesting Additionally personal competencies can improve personal effectiveness achievements and actions This project identified 5 themes to include a CTPM experience and knowledge b leadership competencies c leadership types styles d personal competencies and e project management competency development PMCD The 5 themes identified are all critical to understanding the perspectives obtained from the study participants regarding leadership competencies to maximize efficiencies of research and development The results of this study can a potentially assist new CTPMs b provide a refresher for CTPMs seeking improvement c provide support for project managers in general and d may assist hiring managers in determining the leadership skills to seek The results from this study may support the project program and portfolio managers from various industries to better understand the leadership competencies and the overall framework that support project management At the same time these 5 themes interpreted in the broadest terms may be helpful to you      **Essentials of Pain Medicine**

**E-Book** Honorio Benzon,Srinivasa N. Raja,Scott M Fishman,Spencer S Liu,Steven P Cohen,2017-10-01 Accessible concise and clinically focused Essentials of Pain Medicine 4th Edition by Drs Honorio T Benzon Srinivasa N Raja Scott M Fishman Spencer S Liu and Steven P Cohen presents a complete full color overview of today s theory and practice of pain medicine and regional anesthesia It provides practical guidance on the full range of today s pharmacologic interventional neuromodulative physiotherapeutic and psychological management options for the evaluation treatment and rehabilitation of persons in pain Covers all you need to know to stay up to date in practice and excel at examinations everything from basic considerations through local anesthetics nerve block techniques acupuncture cancer pain and much more Uses a practical quick reference format with short easy to read chapters Presents the management of pain for every setting where it is practiced including the emergency room the critical care unit and the pain clinic Features hundreds of diagrams illustrations summary charts and tables that clarify key information and injection techniques now in full color for the first time Includes

the latest best management techniques including joint injections ultrasound guided therapies and new pharmacologic agents such as topical analgesics Discusses recent global developments regarding opioid induced hyperalgesia addiction and substance abuse neuromodulation and pain management and identification of specific targets for molecular pain Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures Q As and references from the book on a variety of devices

### **Clinical Pharmacy Education, Practice and Research**

Dixon Thomas,2018-11-23 Clinical Pharmacy Education Practice and Research offers readers a solid foundation in clinical pharmacy and related sciences through contributions by 83 leading experts in the field from 25 countries This book stresses educational approaches that empower pharmacists with patient care and research competencies The learning objectives and writing style of the book focus on clarifying the concepts comprehensively for a pharmacist from regular patient counseling to pharmacogenomics practice It covers all interesting topics a pharmacist should know This book serves as a basis to standardize and coordinate learning to practice explaining basics and using self learning strategies through online resources or other advanced texts With an educational approach it guides pharmacy students and pharmacists to learn quickly and apply Clinical Pharmacy Education Practice and Research provides an essential foundation for pharmacy students and pharmacists globally Covers the core information needed for pharmacy practice courses Includes multiple case studies and practical situations with 70% focused on practical clinical pharmacology knowledge Designed for educational settings but also useful as a refresher for advanced students and researchers

### ***The Social Studies Teacher's Toolbox* Elisabeth**

Johnson,Evelyn Ramos,2020-04-09 Social studies teachers will find classroom tested lessons and strategies that can be easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Social Studies Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core Social Studies standards and National Council for the Social Studies standards cover the underlying research technology based options practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their social studies courses Topics range from reading and writing in social studies and tools for analysis to conducting formative and summative assessments differentiating instruction motivating students incorporating social and emotional learning and culturally responsive teaching Easy to read content shows how and why social studies should be taught and how to make connections across history geography political science and beyond Designed to reduce instructor preparation time and increase relevance student engagement and comprehension this book Explains the usefulness

application and potential drawbacks of each instructional strategy Provides fresh activities applicable to all classrooms Helps social studies teachers work with ELLs advanced students and students with learning differences Offers real world guidance for addressing current events while covering standards and working with textbooks The Social Studies Teacher s Toolbox is an invaluable source of real world lessons strategies and techniques for general education teachers and social studies specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

**The Place of Ethics in Science Education** Amanda McCrory, Michael J. Reiss, 2023-08-24 Science education particularly school science education has long had an uneasy relationship with ethics being unsure whether to embrace ethics or leave it to others In this book the authors argue that while the methods of science and of ethics are very different ethics plays a key role in how science is undertaken and used And so ethics has a central place in science education whether we are talking of school science education for students of all ages or the informal science education that takes place in through internet books magazines TV and radio or in places such as hospitals and zoos Written for science educators based in schools and elsewhere the authors make no assumptions that the reader has any knowledge of ethics beyond the background understandings of morality that virtually all of us have Empowered with the knowledge shared in this book readers will feel confident about the place that ethics has in science education The authors provide a rich array of examples as to how science education both in school and out of school and for all ages can be enhanced through including teaching about ethics

Mobile Learning in Schools Jocelyn Wishart, 2017-10-03 Mobile Learning in Schools explores the potential for using mobile devices in diverse school and college settings around the globe It evaluates the exciting opportunities mobile initiatives bring and shares experience of where things can go wrong in order to ensure that those embarking on new projects are fully informed Drawing on a wide range of international perspectives it unpicks knotty sociocultural issues including lack of sustainability behavioural and ethical concerns and explores successful student learning Key issues considered include mobile learning in primary schools teaching and learning with mobile devices in secondary schools opportunities inside and outside school pedagogical principles and sustainability mobile learning for initial teacher training and CPD ethical considerations behaviour matters disruption plagiarism cheating cyberbullying assessing mobile learning With annotated further reading and questions to trigger reflection and further discussion amongst readers this thought provoking text provides a detailed survey of this often controversial topic It is essential reading for all those engaged in understanding the potential for using mobile devices to support students learning

Catalog of Federal Domestic Assistance, 2011 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs

Schmidek and Sweet: Operative Neurosurgical Techniques E-Book Alfredo Quinones-Hinojosa, 2021-04-22 Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years and the 7th Edition of Operative Neurosurgical Techniques continues



this tradition of excellence A new editorial board led by editor in chief Dr Alfredo Quinones Hinojosa along with more than 330 internationally acclaimed contributors ensures that readers stay fully up to date with rapid changes in the field New chapters surgical videos and quick reference features throughout make this edition a must have resource for expert procedural guidance for today s practitioners Discusses indications operative techniques complications and results for nearly every routine and specialized procedure for brain spinal and peripheral nerve problems in adult patients Covers the latest techniques and knowledge in deep brain stimulation for epilepsy movement disorders dystonia and psychiatric disorders surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Includes new chapters on bypass techniques in vascular disease previously coiled aneurysms CSF diversion procedures surgical management of posterior fossa cystic and membranous obstruction laser ablation techniques and brain stem tumors Explores hot topics such as wide awake surgery and ventriculo peritoneal ventriculoatrial and ventriculo pleural shunts Provides detailed visual guidance with more than 1 600 full color illustrations and 50 procedural videos Contains quick reference boxes with surgical pearls and complications Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

*Stimulated Raman Scattering Microscopy* Ji-Xin Cheng, Wei Min, Yasuyuki Ozeki, Dario Polli, 2021-12-04 Stimulated Raman Scattering Microscopy Techniques and Applications describes innovations in instrumentation data science chemical probe development and various applications enabled by a state of the art stimulated Raman scattering SRS microscope Beginning by introducing the history of SRS this book is composed of seven parts in depth including instrumentation strategies that have pushed the physical limits of SRS microscopy vibrational probes which increased the SRS imaging functionality data science methods and recent efforts in miniaturization This rapidly growing field needs a comprehensive resource that brings together the current knowledge on the topic and this book does just that Researchers who need to know the requirements for all aspects of the instrumentation as well as the requirements of different imaging applications such as different types of biological tissue will benefit enormously from the examples of successful demonstrations of SRS imaging in the book Led by Editor in Chief Ji Xin Cheng a pioneer in coherent Raman scattering microscopy the editorial team has brought together various experts on each aspect of SRS imaging from around the world to provide an authoritative guide to this increasingly important imaging technique This book is a comprehensive reference for researchers faculty postdoctoral researchers and engineers Includes every aspect from theoretic reviews of SRS spectroscopy to innovations in instrumentation and current applications of SRS microscopy Provides copious visual elements that illustrate key information such as SRS images of various biological samples and instrument diagrams and schematics Edited by leading experts of SRS microscopy with each chapter written by experts in their given topics

**Personalized Medicine and Neurosurgery** M. Yashar S. Kalani, Nicholas Theodore, 2017-11-22 The Precision Medicine

Initiative which was instituted by President Barack Obama on January 20 2015 highlighted the importance that advances in genomics and related omic approaches have made to science and medicine and it set the stage for their federally funded and mandated integration into the delivery of health care Whether these advances comprise large scale approaches such as The Cancer Genome Atlas which provides a modern classification of cancers based on molecular profiles or genealogy initiatives which seek to trace the movement of our early ancestors out of Africa genomic technology has taken us closer to developing targeted therapies and a refined understanding of our evolutionary journey It is against this backdrop that we summarized some of the recent advances in the field of precision medicine or personalized medicine as they pertain to neurosurgery In this e Book collection provided by Frontiers in Surgery Neurosurgery we present a collection of articles by leaders in the field of neurosurgery that highlight domains using a personalized approach for the treatment of patients or avenues when personalization is possible and when it will likely alter the care of patients with neurological diseases Nutrition in Public Health Arlene Spark, Lauren M. Dinour, Janel Obenchain, 2015-09-22 This second edition of a bestseller Nutrition in Public Health Principles Policies and Practice focuses on the role of the federal government in determining nutrition policy and influencing practice Beginning with an overview of public health principles the book examines the application of nutritional policy to dietary guidance health promot

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