# Grade11 Life sciences Practical task

# Instructions

- Read the given reader below and understand it so that you may answer the questions that will follow below.
- 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.
- 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 dose 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:

- 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) thecurve of the entire front side, whereas the backside is much flatter.

# **Practical Life Science Grade 11**

Miranda Rocksén, Elaosi Vhurumuku, Maria Svensson, Emmanuel Mushayikwa, Audrey Msimanga

### **Practical Life Science Grade 11:**

Research Handbook on Classroom Observation Sean Kelly,2025-03-12 This comprehensive Research Handbook offers cutting edge insights into classroom observation systems for teacher evaluation and professional development with an emphasis on both applied and discovery oriented inquiry **Subject Offerings and Enrollments in Public Secondary Schools** United States. Office of Education, Grace Stevens Wright, 1965 Saint John Vocational School Faye Somers, 2001

Science and Technology Teacher Education in the Anthropocene Miranda Rocksén, Elaosi Vhurumuku, Maria Svensson, Emmanuel Mushayikwa, Audrey Msimanga, 2022-05-17 This unique book compares anthropogenic challenges in science and technology teacher education between the northern and southern contexts of Sweden and South Africa respectively Presenting the results of a three year research collaboration between science and technology teacher education researchers from South Africa and Sweden the book explores theoretical perspectives and pedagogical experiences in response to challenges in the Anthropocene It discusses research informed practice in teacher education to address sustainable development Chapters in the book collectively investigate the influence of current environmental and societal changes on the education of teachers answering the question of how science and technology teacher education can adjust to current changes in the world and prepare new teachers for work in their future profession Touching on issues such as climate change global warming and pandemic diseases the book uses a comparative approach and explores opportunities and possibilities for fulfilling the goals of science and technology education for sustainable development The book offers recommendations and opportunities to implement sustainability issues and develop sustainable teaching strategies It will be a key reading for researchers academics and post graduate students in the fields of teacher education science and technology education sustainability education and comparative education Methods of Teaching Life Sciences G.B. Lakshmi, 2004 Contents Introduction The Conception Fundamental Issues Structural Setup Objectives and Goals Methods of Teaching Teaching Aids Systematic Learning The Curriculum Planning the Lessons The Practicals Assessment Process Extra Curricular Programmes Search for Talent Teacher's Role Information and Communications Technology in STEM **Education** Umesh Ramnarain, Mdutshekelwa Ndlovu, 2023-07-21 This timely book presents the latest scholarly research on the integration of Information Communications Technology ICT for enhanced STEM education in African schools and universities Featuring critical discussion and illustration of key data led arguments this volume gives a comprehensive picture of the breadth complexity and diversity of issues present in different African countries It highlights a diverse range of topics such as approaches to ICT integration the use of digital technologies to support inquiry based learning teacher development and contextual issues in ICT integration for STEM education Chapters feature contributions and shared experiences from prominent science educators and researchers from across African regions and demonstrate findings and reflections on emerging trends pedagogical innovations and research informed practices on ICT integration in STEM

education Offering cutting edge research on STEM and digital education in Africa the book will appeal to researchers postgraduate students and scholars in the fields of STEM education ICT education digital education and pedagogy

Biological Invasions in South Africa Brian W. van Wilgen, John Measey, David M. Richardson, John R. Wilson, Tsungai A. Zengeya, 2020-03-10 This open access volume presents a comprehensive account of all aspects of biological invasions in South Africa where research has been conducted over more than three decades and where bold initiatives have been implemented in attempts to control invasions and to reduce their ecological economic and social effects It covers a broad range of themes including history policy development and implementation the status of invasions of animals and plants in terrestrial marine and freshwater environments the development of a robust ecological theory around biological invasions the effectiveness of management interventions and scenarios for the future The South African situation stands out because of the remarkable diversity of the country and the wide range of problems encountered in its varied ecosystems which has resulted in a disproportionate investment into both research and management The South African experience holds many lessons for other parts of the world and this book should be of immense value to researchers students managers and policy makers who deal with biological invasions and ecosystem management and conservation in most other regions and Enrollments, Grades 9-12 Diane Bochner Gertler, 1965 Private Secondary Schools Peterson's, 2011-05-01 Peterson's Private Secondary Schools is everything parents need to find the right private secondary school for their child This valuable resource allows students and parents to compare and select from more that 1 500 schools in the U S and Canada and around the world Schools featured include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Helpful information listed for each of these schools include school's area of specialization setting affiliation accreditation tuition financial aid student body faculty academic programs social life admission information contacts and more Also includes helpful articles on the merits of private education planning a successful school search searching for private schools online finding the perfect match paying for a private education tips for taking the necessary standardized tests semester programs and understanding the private schools admission application form and process **Resources in Education** ,1997 Practical Peer-to-Peer Teaching and Learning on the Social Web Hai-Jew, Shalin, 2021-11-19 On the Social Web people share their enthusiasms and expertise on almost every topic and based on this learners can find resources created by individuals with varying expertise Through this trend and the wide availability of video cameras and authoring tools people are creating DIY resources and sharing their knowledge skills and abilities broadly While these resources are increasing in availability what has not been explored is the effectiveness of these resources peer to peer teaching and learning and how well this content prepares learners for professional roles Practical Peer to Peer Teaching and Learning on the Social Web explores the efficacies of online teaching and learning with materials by peers and provides insights into what is made available for teaching and learning by the broad public It also considers

intended and unintended outcomes of open shared learning online and discusses practical ethics in teaching and learning online Covering topics such as learner roles and instructional design it is ideal for teachers instructional designers and developers software developers user interface designers researchers academicians and students Indian Education, 1969 United States. Congress. Senate. Committee on Labor and Public Welfare. Special Subcommittee on Indian Education, 1969 Reviews the policy organization administration and the legislation concerning the educational needs of the American Indian Apr 11 hearing was held in Fairbanks Alaska Science 2000, **New Dimensions in Educational Sciences Without** Borders İ. Alper KÖSE, Nazlıcan TOKSOY ELMACI, Özkan SAPSAĞLAM, Banu İNAN-KARAGÜL, Sahin DÜNDAR, Filiz KABAPINAR, Yücel KABAPINAR, Metin ELKATMIŞ, Büşra USLUOĞLU, Aylın MENTİŞ KÖKSOY, Belgin LİMAN, Ramazan YILDIRIM ,Saban ORTAK,Necmettin KÜRTÜL,Sema SOYDAN,Ayber ACAR,Recep KÜREKLİ , İlhami SARIÇAM,F. Munevver SAATCİOGLU,2022-12-25 New Dimensions in Educational Sciences Without Borders Livre de Lyon School Management ,1959-05 Circular ,1965 Private Secondary Schools: Traditional Day and Boarding Schools Peterson's, 2011-05-01 Peterson's Private Secondary Schools Traditional Day and Boarding Schools is everything parents need to find the right day or boarding private secondary school for their child Readers will find hundreds of school profiles plus links to informative two page in depth descriptions written by some of the schools Helpful information includes the school s area of specialization setting affiliation accreditation subjects offered special academic programs tuition financial aid student profile faculty academic programs student life admission information contacts and much more Learner-centered Science Education ,2019-02-11 This book arises from the author's experience of the South African science curriculum development and teaching since 1994 exploring definitions of science and approaches to science education appropriate to a newly liberated developing country Each of the 50 chapters is borne out of Cliff Malcolm's close relationships with communities in SA where he obtained deep insights into their attitudes to science teaching and learning providing him with an empirical basis to challenge tertiary institutions to transform their curriculum offerings to embrace the culture and world views of African students The author makes a compelling case for the evolution of relevant science teaching and learning that provide capital for indigenous knowledges The book has relevance also to first world countries because the social and educational problems facing South Africa though starker here are present in all countries The book addresses among others the nature of scientific knowledge and knowledge production how scientific knowledge can be accessed and represented what counts as legitimate scientific knowledge in the South African context of colonization liberation inequity and African belief systems The book extends the debates on African Science and offers ways of talking and writing about science that reframe it acknowledging problematics and pluralism offering ways of bringing Western and African thought together Using a richly descriptive novelistic style the author sketches vivid portraits of his research sites participants and experiences His vignettes are embedded in deep theoretical insights lending gravity to the development discourse in science education providing a coherent language for the

transformational agendas of science educators committed to the project of social justice through a relevant science

**Extending Intelligence** Patrick C. Kyllonen, Richard D. Roberts, Lazar Stankov, 2008 This volume presents research from a variety of perspectives on the enhancement of human intelligence It is organized around five themes enhancement via instruction enhancement via development over the life cycle enhancement over time enhancement via new constructs and new directions in enhancement Three key issues are addressed First although most of the scientific research on intelligence has concerned what it is this volume attends to the consequential societal and economic issue concerns of whether it can be increased and how Second intellectual enhancement is particularly important when targeted to minorities and the poor groups that have typically performed relatively less well on intelligence and achievement measures This volume reflects the education community s ongoing interest in understanding and attempting to close achievement or test score gaps Third most of the attention to examining intellectual enhancement and in accounting for and closing the test score gap has focused on general cognitive ability In line with the current emphasis on considering intelligence from a wider perspective this volume includes constructs such as emotional and practical intelligence in definitions of intellectual functioning Extending Intelligence Enhancement and New Constructs is an essential volume for researchers students and professionals in the fields of educational psychology intelligence educational measurement and assessment and critical thinking A Manual of Arithmetic for Teachers, Giving Practical Suggestions for Teaching of Arithmetic in the Elementary Grades and Junior High School Edison Ellsworth Oberholtzer, 1920

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