

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**.

2014 Life Sciences Practical 2 Memorandum

**Kara L. Hall, Amanda L. Vogel, Robert T.
Croyle**



2014 Life Sciences Practical 2 Memorandum:

Strategies for Team Science Success Kara L. Hall, Amanda L. Vogel, Robert T. Croyle, 2019-11-13 Collaborations that integrate diverse perspectives are critical to addressing many of our complex scientific and societal problems Yet those engaged in cross disciplinary team science often face institutional barriers and collaborative challenges *Strategies for Team Science Success* offers readers a comprehensive set of actionable strategies for reducing barriers and overcoming challenges and includes practical guidance for how to implement effective team science practices More than 100 experts including scientists administrators and funders from a wide range of disciplines and professions explain evidence based principles highlight state of the art strategies tools and resources and share first person accounts of how they ve applied them in their own successful team science initiatives While many examples draw from cross disciplinary team science initiatives in the health domain the handbook is designed to be useful across all areas of science *Strategies for Team Science Success* will inspire and enable readers to embrace cross disciplinary team science by articulating its value for accelerating scientific progress and by providing practical strategies for success Scientists administrators funders and others engaged in team science will also leave equipped to develop new policies and practices needed to keep pace in our rapidly changing scientific landscape Scholars across the Science of Team Science SciTS management organizational behavioral and social sciences public health philosophy and information technology among other areas of scholarship will find inspiration for new research directions to continue advancing cross disciplinary team science

Teaching Political Science: A Practical Guide for Instructors Amanda M. Rosen, 2024-08-01 This book applies the existing literature in the scholarship of teaching and learning to political science advising discipline specific tips approaches and strategies to put immediately into practice Keeping in mind the pace of an academic career it also challenges the widely held misconception that being a good teacher requires a huge time investment This book is meant for three core audiences graduate students taking a course on teaching political science or about to embark on their first teaching experience newly minted PhDs facing their first academic post and trying to figure out how to balance all of their new responsibilities and veteran instructors looking to prepare a new course or revise an existing one

Maldives Investment and Business Guide Volume 1 Strategic and Practical Information IBP, Inc., 2015-09-11 Maldives Investment and Business Guide Volume 1 Strategic and Practical Information Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Ocean Studies Board, Committee on Effective Approaches for Monitoring and Assessing Gulf of Mexico Restoration Activities, 2017-03-16 Gulf Coast communities and natural resources suffered extensive direct and indirect damage as a result of the largest accidental oil spill in US history referred to as the Deepwater Horizon DWH oil spill Notably natural resources affected by this major spill include wetlands coastal beaches and barrier islands coastal and marine wildlife seagrass beds oyster reefs commercial fisheries deep benthos

and coral reefs among other habitats and species Losses include an estimated 20% reduction in commercial fishery landings across the Gulf of Mexico and damage to as much as 1 100 linear miles of coastal salt marsh wetlands This historic spill is being followed by a restoration effort unparalleled in complexity and magnitude in U S history Legal settlements in the wake of DWH led to the establishment of a set of programs tasked with administering and supporting DWH related restoration in the Gulf of Mexico In order to ensure that restoration goals are met and money is well spent restoration monitoring and evaluation should be an integral part of those programs However evaluations of past restoration efforts have shown that monitoring is often inadequate or even absent Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico identifies best practices for monitoring and evaluating restoration activities to improve the performance of restoration programs and increase the effectiveness and longevity of restoration projects This report provides general guidance for restoration monitoring assessment and synthesis that can be applied to most ecological restoration supported by these major programs given their similarities in restoration goals It also offers specific guidance for a subset of habitats and taxa to be restored in the Gulf including oyster reefs tidal wetlands and seagrass habitats as well as a variety of birds sea turtles and marine mammals

Management of Legionella in Water Systems National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward

Digital Phenotyping and Mobile Sensing Christian Montag, Harald Baumeister, 2022-07-22 This book offers a snapshot of cutting edge applications of digital phenotyping and mobile sensing for studying human behavior and planning innovative e healthcare interventions The respective chapters written by authoritative researchers cover both theoretical perspectives and good scientific and professional practices related to the use and development of these technologies They share novel insights into established applications of mobile sensing such as predicting personality or mental and behavioral health on the basis of smartphone

usage patterns and highlight emerging trends such as the use of machine learning big data and deep learning approaches and the combination of mobile sensing with AI and expert systems Important issues relating to privacy and ethics are analyzed together with selected case studies This thoroughly revised and extended second edition provides researchers and professionals with extensive information on the latest developments in the field of digital phenotyping and mobile sensing It gives a special emphasis to trends in diagnostics systems and AI applications suggesting important future directions for research in public health and social sciences

Science Teaching in Schools Great Britain: Parliament: House of Lords: Science and Technology Committee,2006-11-05 The Committee s report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14 19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools

Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Looking for Information Lisa M. Given,Donald O. Case,Rebekah Willson,2023-06-30 This fifth edition is redesigned to reflect the breadth of research across information behaviour studies with a new streamlined six chapter structure presenting a refreshed look at information needs and seeking practices while also embracing contemporary concepts such as information use creation and embodiment

2016GUIDELINES FOR INVESTIGATING GEOLOGIC HAZARDS AND PREPARING ENGINEERING-GEOLOGY REPORTS, WITH A SUGGESTED APPROACH TO GEOLOGIC-HAZARD ORDINANCES IN UTAH Steve D. Bowman,William R. Lund,2016-09-21 The purpose of these guidelines for investigating geologic hazards and preparing engineering geology reports is to provide recommendations for appropriate minimum investigative techniques standards and report content to ensure adequate geologic site characterization and geologic hazard investigations to protect public safety and facilitate risk reduction Such investigations provide important information on site geologic conditions that may affect or be affected by development as well as the type and severity of geologic hazards at a site and recommend

solutions to mitigate the effects and the cost of the hazards both at the time of construction and over the life of the development The accompanying suggested approach to geologic hazard ordinances and school site investigation guidelines are intended as an aid for land use planning and regulation by local Utah jurisdictions and school districts respectively Geologic hazards that are not accounted for in project planning and design often result in additional unforeseen construction and or future maintenance costs and possible injury or death

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