

# 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 bellow.
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 1practical Work Life Sciences Exemplar

**M Carnoy**



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**Styles of Reasoning in the British Life Sciences** James Elwick, 2015-10-06 Explores how the concept of compound individuality brought together life scientists working in pre Darwinian London This book states that scientists conducting research in comparative anatomy physiology cellular microscopy embryology and the neurosciences repeatedly stated that plants and animals were compounds of smaller independent units

**The Encyclopaedic dictionary; a new, practical and exhaustive work of reference to all the words in the English language, with a full account of their origin, meaning, pronunciation, history and use** Robert Hunter, 1894

**"A" Dictionary of the English Language** Robert Gordon Latham, 1876

*The Best 368 Colleges 2009* Robert Franek, Princeton Review, Tom Meltzer, Christopher Maier, 2008-07-29 A survey of life on the nation's campuses offers detailed profiles of the best colleges and rankings of colleges in sixty two different categories along with a wealth of information and applications tips

Resources in Education, 1989

*The American Encyclopaedic Dictionary*, 1894

*Qualitative Research in Applied Linguistics* J. Heigham, R. Croker, 2009-06-17 Written in a clear informal style for graduate students and practicing teachers embarking on their first qualitative research study in applied linguistics leading authors introduce the principal research approaches and data creation methods to offer novice researchers an easy to follow and straightforward guide to qualitative inquiry

*Encyclopedia of Philosophy and the Social Sciences* Byron Kaldis, 2013-04-02 The entries in this encyclopedia give readers an opportunity to explore interconnections clarify commonalities as well as differences or comparative contrasts discover new fields or ideas of intellectual interest explore adjacent conceptual zones that may be found to further expand their own disciplinary domains and also understand better their own academic areas of expertise and the historical provenance of each p xxxi

Literary Gazette and Journal of Belles Lettres, Arts, Sciences, Etc William Jerdan, William Ring Workman, Frederick Arnold, John Morley, Charles Wycliffe Goodwin, 1830

**Automotive Industries, the Automobile**, 1920

*The Lincoln Library of Essential Information an Up to Date Manual for Daily Reference, for Self Instruction, and for General Culture Named in Appreciative Remembrance of Abraham Lincoln, the Foremost American Exemplar of Self Education*, 1924

**The London Literary Gazette and Journal of Belles Lettres, Arts, Sciences, Etc**, 1830

**Encyclopædia Britannica, Or, Dictionary of Arts, Sciences and General Literature** Thomas Stewart Traill, 1853

Literary Gazette and Journal of Belles Lettres, Arts, Sciences, &c, 1830

**A Dictionary of the English Language** Samuel Johnson, 1882

**The Literary Gazette and Journal of Belles Lettres, Arts, Sciences**, 1830

Theoretical and Methodological Approaches to Social Sciences and Knowledge Management Asunción Lopez-Varela Azcárate, 2012-08-16 This is a unique and groundbreaking collection of questions and answers coming from higher education institutions on diverse fields and across a wide spectrum of countries and cultures It creates routes for further innovation collaboration amidst the Sciences both Natural and Social the Humanities and the private and public sectors of society The chapters speak across

sociocultural concerns education welfare and artistic sectors under the common desire for direct responses in more effective ways by means of interaction across societal structures      The Law Times ,1896      *Finance Chronicle and Insurance Circular* ,1898      History of Detroit Paul Leake,1912

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