

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**.

Life Sciences Exemplar Grade11 2014

Kathleen Armour



Life Sciences Exemplar Grade11 2014:

Archiv Der Pharmazie ,1866 *Connecting People to Their Oceans: Issues and Options for Effective Ocean Literacy*
Angel Borja,Francesca Santoro,Gail Scowcroft,Stephen Fletcher,Pierre Strosser,2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss

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