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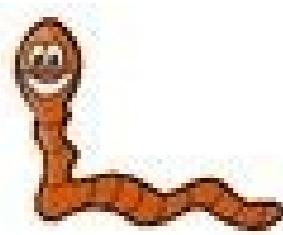
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Earthworm Dissection Lab



7th Grade Life Science



PROCEDURE:

1. Obtain about 400ml of ethyl alcohol solution and a worm. Immersing the worm in the alcohol to anaesthetize it. It should take between 30 and 45 seconds for the worm to become sufficiently anaesthetized. As soon as the worm is not moving it is ready. Do not leave the worm in the alcohol for too long or it will die. It is important that the worm remain alive so that you can observe the way in which the earthworm's muscles function in the digestive and circulatory systems.

2. When the worm is ready remove it from the alcohol and place it, dorsal side up, in the dissecting tray. The dorsal side is the dark side of the worm. Place the worm in the tray near the longitudinal edge. This will allow the tray to be placed under the microscope.

3. The head may be distinguished from the anus by looking for a band of tissue around the body of the worm. This is the clitellum and it is located closer to the head than the anus (figure 1). Pin the worm to the tray with three pins. Place one pin at the very tip of the worm's head and two others on either side down around the 25th segment (see figures 2 and 3). Note: A slight movement of the worm when it is pinned is a natural reflex; it does not mean the worm can feel anything.



FIGURE 1: Identifying the earthworm.

4. You will begin your cut at the anterior. Hold the scissors parallel to the worm and make a small "V" cut, then turn the scissors to cut towards the head.

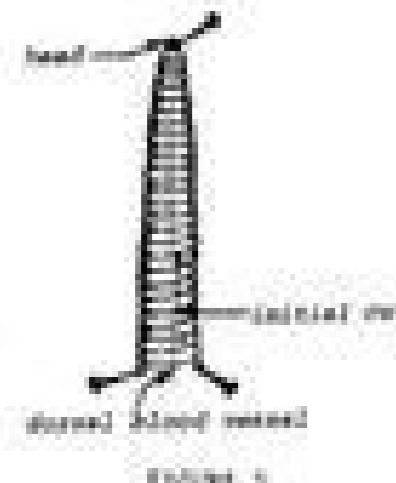


FIGURE 2

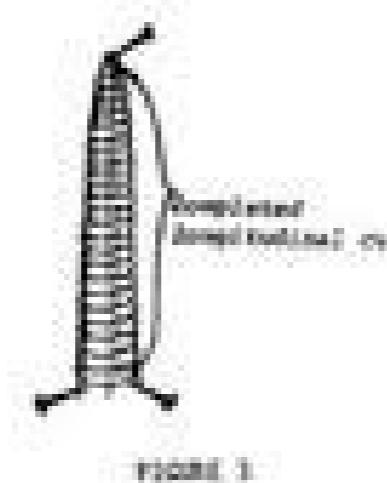


FIGURE 3

7	<ul style="list-style-type: none"> The heading: <u>Respiratory System</u> A photo that is labeled with the following: trachea, left bronchi, right bronchi, diaphragm, left lung, right lung. 	8
8	<ul style="list-style-type: none"> The heading: <u>Circulatory System</u> An <u>external</u> photo of the heart that has the labels: coronary artery, left atrium, right atrium, left ventricle, right ventricle, aorta. An <u>internal</u> photo from when the heart was cut in half that has the labels: pulmonary artery, pulmonary vein, left atrium, right atrium, left ventricle, right ventricle, superior vena cava, inferior vena cava, tricuspid valve, bicuspid valve, aorta. 	20
9	<ul style="list-style-type: none"> The heading: <u>Urinary System</u> A photo with the labels: left kidney, right kidney, left ureter, right ureter, urethra, bladder, blood vessels to kidneys 	8
	TOTAL	90

Name: _____	Date: _____
Life Science	Period: _____
Invertebrates – Worms	
Lab: Earthworm Dissection <i>Viewing the external and internal anatomy of an invertebrate</i>	
Objectives	
1. To learn about the external and internal anatomy of the earthworm. 2. To understand the structure and function of the external and internal organs. 3. To identify the organs of the digestive system of the earthworms.	
Materials	
<ul style="list-style-type: none"> • Earthworms • Dissection pan • Dissecting knives • Dissection pins • Probe • Disposable gloves • Protective eyewear • Metric ruler 	
Procedure	
<p>One art partner will read the procedure aloud while the other follows the instruction. Lab partners should alternate performing both these roles during the dissection.</p>	
External Anatomy	
<ol style="list-style-type: none"> 1. Straighten the earthworm out across the dissection tray, placing the ventral side down. <ol style="list-style-type: none"> a. The ventral side appears flatter than the other sides of the earthworm. b. The dorsal side is the worm's rounded side. 2. Identify the anterior and posterior ends of the earthworm. <ol style="list-style-type: none"> a. The anterior end features the proctiger, which is a fleshy tube that extends over the mouth. b. The posterior end features the rectum, the end of the digestive tract. 3. Locate the clitellum, which extends from segment 23 to segment 37. The clitellum is a swelling of the earthworm near its anterior end. 	

Use dissection pins to secure each end in the tray. If you have the needs of these four animals, there are other online request options for dissection: a fetal pig, a rat, a heart, a craft or one eye. Note how the intestine and ventral nervous cord continues through the entire length of the worm. Indeed, there is a lot to learn to see personally how one system works with another or similar ones are the systems from one animal to another. Its muscle contractions pass foods at the time. Which happily client said about the worm dissection guide: Start your dissemination about an inch after Clitellum. See the labeled image to help you find the following features: pharynx: This one is lightly color just inside the mouth. Order a dissection kit I was surprised to find that I could ask for a set of four dissection samples for less than \$ 20! Includes four animals of different classifications, so we had a wide variety of animal structures to be observed. Follow a dissection guide to the dissection kit I bought came with some very basic instruction leaves for each animal, but I found some that were much more detailed - and suitable for a course in Teaching Mother. Near the front end of the worm, you must see some larger pores that can be easily seen without expansion. With your magnifying glass, look for pores for the segment in each segment. Download: Earthworm Dissecse Lab Lab Earthworm Observation: External Anatomy Click to the full size PDF 1. I would love to hear what you said and how it was! Related Posts Worms are important helpers in the garden or field! Its tunneling mixes the soil and brings the rich soil it is surface. Place the worm in your dissection tray with the dorsal side turned up. I'm so happy to have done it! Just made Give us good instructions on how/where to cut, teachers would give us all kinds of wonderful details about the parts and functions of animals, as well as other interesting snacks. Do you need to know how to teach high school dissection? Although these are certainly wonderful activities, I still believe it is really very important to do the dissections. If you want to be very serious, you can buy a reusable dissection pan. About a third of the way back from the mouth, you should see a thicker and smoother section of the worm. (It may be necessary to drag a pin along the inner part of the skin to cut the walls of the septum to facilitate the spread of the skin.) Click for PDF in real size 3. Mica dissection: Internal Anatomy 1. Toolkit! (Occasionally, this set is not available. P.S. My boys have not kept any of them all the time. He made notes alongside each category detailing which features constitute this category. For example, worms belong to the Annelida phylum. AN (For this, I simply typed the search engine, for example, "parts of a worm" and then clicked on "images" to see what the printables were available. My boys are 11 and 12 years old and They didn't even want to dissect anything, but they both found the dissection very interesting when they started. Lagostin dissection guide Guide for dissection of external and internal frogs You may be thinking it is good enough to do animal research and watch dissection videos. regular organs.t-pinos or straight pins are imperative. Have several old isopor trays ready to trap the creatures of At ,sognol otium marof m@Abmat soedAv sO .oedAv me ritsissa oa odarapmoc res edop ofAn e levArcni etnemlaer @A ,anoicnuf atreba of ASAlucric ed ametsis mu omoc @Av uo oirjAv mu me sovo artnocne @Cov odnauq ,ossid m@A .ofASAudorper an odivlovne jAtse e mulletilc ed odamahc @A ossI .lamina od)aimonoxat(acifAtneic of ASAcifissalc a dot avercse :asiuqsep ed saferat setniuges sa arap rodatupmoc o uosu ohlf uem ,tik osson me siamina ortauq sod mu adac arap racessid ed setna siamina so esiuqseP .2 .ofASAccessid ad aid on oconoc ratse rop zilef uocif e edadlucaf an aigoloib ed opit mugla evetbo elE .sadrec sadamahc sadrec saneuqep rop adasuac azerepsa amu ritnes eved @Cov .ofASAccessid ahnim A osohlivaram iap uem ahnit ue euq egnol siam ri ed setna ritimda aireved ue ,arogA .4 .mim me adot iof ofASAccessid a ,odassap ona on aigoloib zef ohlf uem odnauQ .aigrene ed saiehc saferat saneuqep saud sassen air; Assecen asiuqsep atium aovah ,m@Arp ,rev edop @Cov omoC !omsem ossi A).satsopser sairp@Arp saus rartnocne essedup ohlf uem euq arap sosserpmi- @Arp solut@Arp so odnanimile e mim arap atsopser ed evahc amu omoc ertsem aip@C amu retnam odnasicrp sezev satium ,sotis@porp sisson soa odauqeda siam euq o imirpmi .ossecorp o odot a @Cov jAravel acohnim ed ofASAccessid ed aiug ossoN .sonretni sofAgr@A so racifinad jAredorp ,odnuforp otium rof @Cov es - elep a sanepa ratroc ed a\$Aeuqse es ofAn e ragaved jAV .sej@ASAccessid sad asioc reuqlauq rezaf ed setna soedAv so sodot a somitsissa ,iap uem moc aid mu ed anotaram amu me sej@ASAccessid sasson sa sadot rezaf somav; Ajenalp euq edseD 2 etrap ,1 etrap sopas ed ofASAccessid ed soedAv 2 etrap ,1 etrap snitsogal ed ofASAccessid ed oedAv oedAv reppohssarG acohnim ed sacohnim ed ofASAccessid ed oedAv .adavreserp acohnim amu odnacessid ,sarutairc saneuqep sassed sofAgr@A so ravresbo edop @Cov 3 .sorop sesse rop soslupxe ofAs sodiuq@L soudAser sO .sodailifa sknil m@Atnoc tsop etsE !oid@Am onisne o are ossi E .uoccessid @Cov otnauqne ravelE ravelE .otpes adamahc anif ederap amu rop odarapes mu adac ,sotnemges soneuqep sotium ed otsopmoc @A emrev od otnemirpmoc O .otsag opmet o The skin with a pair of fanrceps and snip an opening with a pair of scissors to dissect. 4. Food is digested and absorbed here. A "Reproductive rgons: the light color fabric above and around the hearts are seminal vesnules. Using a magnifying glass, try to see the sete. Although we have done a consistent study for years and years, the dissection is never part of these literaries. (One animal a day is "Thus four days of watching total vade.) If I went to do so, I would have seen a spread of dissection one day and then dissected the same trash the next day. Normally, the dorsal surface is darker than the ventral surface (although it is sometimes obscured in the preservation process). P.S. It is difficult to dissect four animals in one day! So hard, in fact, that we managed to go through only three of them and had to call him to stop. The worms were in good condition, they smelled nothing, and large enough to see the anatomy very well. Find the anterior (front) end of the worm locating the fleshy bang over your mouth, called prostomium. I was not all disgusting with the idea, but I didn't really know what to do. You can certainly create a great comprehensive test using guides questions if you like it, however! Mother Possibilities The best part of the dissection of teaching at home with a student of teaching mothers, is your third graduate can join and learn, as well! I did not do Eli do so much research or fill all the squares of the dissection guides as I expected from Caleb, but together we worked in grades of classification and labeling part in spreadsheets. The frog was made another day without my father's luxury help. Slightly rub your finger along the ventral side to the posterior end of the worm. While my son retained a lot from the videos when he arrived on dissection day, I think it would be better to focus on one animal at a time. 3. otnemabacA otnemabacA The remainder of the worm opened from the first incision to the anus. The posterior end (later) has a small hole where solid waste is expelled, called anus. However, all the preparation was with me and the preparation was an integral part of our study! I shouldn't be surprised to find everything I needed for high school-worthy dissection instructions at the fingertips. These are the blood vessels that serve as the heart of the wormal blood vessel: this is a dark line that extends from the hearts over the harvest. it comes from the harvest to the maela, where it is grounded. Intestino: The intestine is the long tube extending from the wind to the anus. He was well in the middle of dissection and learns much more than I would expect from a high school student! Did you do any dissection with your children? 1. I did! When my eldest daughter did biology, we were blessed with a wonderful cooperative teacher specializing in dissection and I delivered the job with pleasure. When this happens, you can buy a larger set of specimens without the extra tools and information.) Other important supplies, if you want to get super accurate when separating the animals, I suggest a more professional dissection toolkit. 5. These are genital pores and are important in reproduction. He took at least one day or two to complete the tasks for each animal. Note that the worm has a rounded dorsal surface and a flater ventral surface (barriga). I hoped my son could tell me that all animals classified as ringing are segmented, etc. Take a test that I really treated the dissection as the test! You will notice the dissection guides that I have seen to you are quite detailed andMy son to remember many information of your research. Other reproductive parts appear as small white ones on the ventral side of the hearts. Ventral nervous cable: With your fanrceps, slightly push the intestine aside to see the long white nerve cord running along the length of the worm below it. Using the fanrceps and dissection pins, carefully disassembles the two skin scraps and pinching them smooth in the tray. 2. Watch dissection vade before the dissection of us all new to the dissection à œRealâ €, I thought I thought it is better to watch every dissected animal by a YouTube professional before we jump inside. I felt any additional test would have been exaggerated. Nothing has happened horrible. it happened.

Expatica is the international community's online home away from home. A must-read for English-speaking expatriates and internationals across Europe, Expatica provides a tailored local news service and essential information on living, working, and moving to your country of choice. With in-depth features, Expatica brings the international community closer together. Skin: Animals such as earthworm and tapeworm use the skin or body surface for gaseous exchange. The skin of the frog is adapted for gaseous exchange both in water and on land. The frog also uses epithelium lining of the mouth or buccal cavity for gaseous exchange. Lungs: Mammals, birds and reptiles have lungs which are adapted for gaseous exchange. Dissection of Fruits . Obtain an orange and a mango fruit. Make a transverse section. Observe the cut surface and draw and label the parts. Note that the fruit is differentiated into epicarp, mesocarp and endocarp. Obtain a pod of a legume. Open up the pod and observe the exposed surface. Draw and label the parts.

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