

## Earthworm Pre-lab Worksheet

The following worksheet must be successfully completed before you start the actual dissection of the earthworm.

### Background

1. What phylum does the earthworm belong? 1. \_\_\_\_\_
2. The annelids are considered \_\_\_\_ worms. 2. \_\_\_\_\_

### Safety First

3. What three safety items are suggested to be worn by those working with preserved worms?
  - i. \_\_\_\_\_
  - ii. \_\_\_\_\_
  - iii. \_\_\_\_\_
4. What must you do before leaving the lab? 4. \_\_\_\_\_

### Procedure

#### Part A

5. What side of the worm faces up when placed in the tray? 5. \_\_\_\_\_
6. What is the external "landmark" on the worm? 6. \_\_\_\_\_
7. Is the clitellum located closer to the anterior or posterior end? 7. \_\_\_\_\_
8. What type of drawing is required before you begin the dissection? 8. \_\_\_\_\_

#### Part B

9. What item is placed under the worm in the wax tray? 9. \_\_\_\_\_
10. Once the worm is placed dorsal side up, what do you do? 10. \_\_\_\_\_
11. describe the cut that is to be made to the worm, what instrument is to be used?  
\_\_\_\_\_
12. Describe the organs of the digestive system from beginning to end:  
\_\_\_\_\_
13. What segments is the pharynx usually located: 13. \_\_\_\_\_
14. What segments is the crop usually located: 14. \_\_\_\_\_
15. What segments is the gizzard usually located: 15. \_\_\_\_\_
16. Is the circulatory in the worm open or closed 16. \_\_\_\_\_
17. How many aortic arches are present? 17. \_\_\_\_\_
18. Describe what the nephridia look like: 18. \_\_\_\_\_
19. Describe the seminal vesicles, what segments are they found?  
19. \_\_\_\_\_
20. Describe what the brain looks like: 20. \_\_\_\_\_
21. What is the brain connected to: 21. \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_ 50 points possible

22. What should you do to be able to view the ventral nerve cord? 22. \_\_\_\_\_  
\_\_\_\_\_

23. When you finish the dissection, how do you dispose of your worm? \_\_\_\_\_

Use the *Illustrated Dissection Guide to the Earthworm* to help locate the following:

24. You will be required to locate these external features on your drawing of the earthworm.

Describe what to look for and where to look for them:

- a. Mouth \_\_\_\_\_
- b. Anus \_\_\_\_\_
- c. Clitellum \_\_\_\_\_
- d. Setae \_\_\_\_\_
- e. Metameres \_\_\_\_\_

### Internal Features

25. You will be required to locate these internal features on your drawing of the earthworm.

Describe what to look for and where to look for them:

- a. Coelum \_\_\_\_\_
- b. Brain \_\_\_\_\_
- c. Aortic Arches \_\_\_\_\_
- d. Ventral nerve cord \_\_\_\_\_
- e. Pharynx \_\_\_\_\_
- f. esophagus \_\_\_\_\_
- g. Crop \_\_\_\_\_
- h. Gizzard \_\_\_\_\_
- i. Stomach \_\_\_\_\_
- j. Seminal Vesicles \_\_\_\_\_
- k. Septa \_\_\_\_\_
- l. Dorsal Blood vessel \_\_\_\_\_