**General Biology II Lab**

**Coelomate Inverts – Ecdysozoan Protostomes Name:**

**Before you leave:**

1. What are Nematodes?
2. What is ecydisis?
3. Did you observe the example of *Ascaris*, distinguish between the male and female. \_\_\_\_\_
4. What are the main groups in Phylum Arthropoda?
5. What are the differences/characteristics of insects, crustaceans and chelicerates?
6. Did you observe the arthropod specimens on the bench? \_\_\_\_
7. Look at the crawfish model and identify:
	* swimmerets (male – anterior 2 pairs are stiffened)
	* gills
	* cephalothorax
	* abdomen
8. Look at the grasshopper model and identify:
	* Brain
	* Heart
	* nerve ganglion
	* crop
	* malphigian tubules
	* trahea
	* spiracles
9. What is the difference between complete and incomplete metamorphosis?
10. **Dissection:** with your group, dissect the crayfish. Figure 9.4 depicts what you should see.
	* Sex – anterior (last) pair of swimmerets on abdomen are stiffened in males
	* Locate cephalothorax and abdomen
	* Find antennae
		+ At base, look for opening (this is where green glands excrete, function like kidneys)
	* Cut away lateral (side) surface of carapace, exposing gills
	* Remove gills to see other organs