**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