

Name : \_\_\_\_\_ Period: \_\_\_\_\_

## Lab Inquiry : Crayfish And Grasshopper Dissection



Resource: [Web Site](#)

*Directions:* Write the report in your notebook.

Goggles must be worn. Be careful with tools.

### PART A: In the Lab

Use the charts and the specimens to compare the two Animal Invertebrates; EXTERNAL Anatomy.

Take a photograph to include in your lab report.

1. **Crayfish** : List some parts ( at least six) from the outside of the crayfish
2. **Crayfish** : Draw and label a diagram of the crayfish outside parts.
3. **Grasshopper** : List some parts from the outside of the grasshopper. Include the Spiracles,Tympanum, head,,etc.

**4. Grasshopper:** Draw and Label a diagram of the grasshopper's outside parts.

**B. Internal Anatomy** Follow the directions for dissecting the specimens.

1. Place the specimens on the tray and keep them on the tray while dissecting.
2. Use the **scissors** to make a cut in the dorsal side of both the crayfish and then the grasshopper. "Lift and cut" to avoid damaging the internal organs. Open up both organisms.
3. Be sure to identify the gills in the crayfish.
4. Use the posters to identify parts in the specimens.

5. Draw and label a diagram of the Grasshopper's internal parts ( Include the "heart")

6. Draw and label a diagram of the Crayfish's internal parts. ( Include the heart)

**C. After the Lab : WEB Inquiry**

Use the web and the diagrams provided.

1. **Crayfish** : What are the functions of four of the external parts listed.
  - a. Cephalothorax ( Exoskeleton)
  - b. Swimmerets
  - c. Cheliped (claws)
  - d. Mandibles
2. **Grasshopper:** What are the functions of four of the external parts listed.

- a. Tympanum
- b. Spiracles
- c. Exoskeleton
- d. Wings

- 3. **Crayfish:** What is it's role in a creek or pond ecosystem? Is it a predator or prey? What does it do that helps many species?
- 4. **Crayfish :** How many species of crayfish are found in Pennsylvania?
- 5. **Grasshopper :** What is it's role in a creek or pond ecosystem? Is it a predator or prey? What does it do that helps many species?
- 6. What is the lifespan of each?