

Crayfish Dissection

Objectives:

- Describe the appearance of various organs found in a crayfish.
- Name the organs that make up systems of the crayfish.

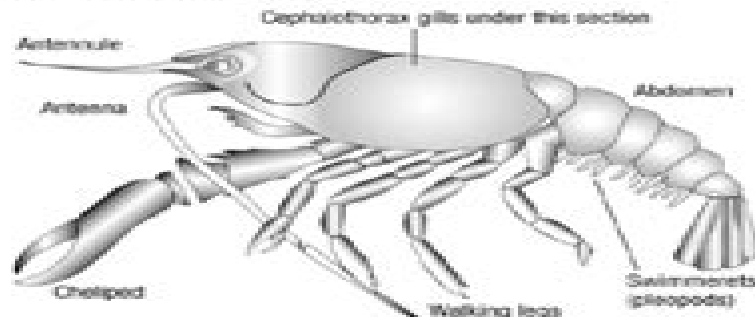
Background:

Like all crustaceans, a crayfish has a fairly hard exoskeleton that covers its body. As shown in the diagram on the next page, its body is divided into two main parts, the **cephalothorax** and the **abdomen**. The cephalothorax consists of the cephalic (or head) region and the thoracic region. The part of the exoskeleton that covers the cephalothorax is called the **carapace**. The abdomen is located behind the cephalothorax and consists of six clearly divided segments. The cephalothorax consists of 13 segments. Each segment of both the cephalothorax and the abdomen contains a pair of appendages. The head (or cephalic) region has five pairs of appendages. The **antennules** are organs of balance, touch, and taste. Long **antennae** are organs for touch, taste, and smell. The mandibles, or jaws, crush food by moving from side to side. Two pairs of **maxillae** hold solid food, tear it, and pass it to the mouth. The second pair of maxillae also helps to draw water over the gills. Of the eight pairs of appendages on the cephalothorax, the first three are **maxillipeds**, which hold food during eating. The **chelipeds** are the large claws that the crayfish uses for defense and to capture prey. Each of the four remaining segments contains a pair of **walking legs**. In the abdomen, the first five segments each have a pair of **swimmerets**, which create water currents and function in reproduction. The sixth segment contains a modified pair of **uropods**. In the middle of the uropods is a structure called the **telson**, which bears the anus. The uropod and telson together make up the tail fan. The crayfish moves backward by forcing water forward with its tail fan.

Materials:

- safety goggles, gloves, magnifying glass, a lab apron, plastic ziplock bag preserved crayfish, pen, dissecting tray, paper towels, scissors, forceps, dissecting needle, and dissecting pins.

Procedure Part I—External Anatomy of a Crayfish



1. Place a crayfish on its **dorsal** side in a dissection tray. Use the diagram below to locate the **cephalothorax** and the **abdomen**. The **carapace**, a shield of chitin, covers the dorsal surface of the

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**Edward Swift Dunster, Frank Pierce
Foster, James Bradbridge
Hunter, Charles Eucharist de Medicis
Sajous, Gregory Stragnell, Henry J.
Klaunberg, Félix Martí-Ibáñez**

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