

# GRASSHOPPER DISSECTION

## Introduction:

Insects are arthropods with jointed appendages, segmented bodies, and an exoskeleton composed of chitin. Insects are in the class Insecta, & are the largest and most diverse group of animals on earth. The genus *Romalea* is a large grasshopper common in the southeastern United States. Insects have three body regions (head, thorax, & abdomen), 3 pairs of legs attached to the thorax, a single pair of antenna attached to the head, mouthparts adapted for chewing or sucking, and two pairs of wings. Some insects may have a single pair of wings or be wingless. Insect legs are often adapted for digging, crawling, jumping, or swimming. The insects are mostly terrestrial; they breathe air which enters small lateral openings on the body called spiracles and circulates in a system of ducts to all organs and tissues. Their chewing or sucking mouth parts are adapted for feeding on plant or animal materials.

## Classification:

Kingdom - Animalia  
Phylum - Arthropoda  
Class - Insecta  
Order - Orthoptera

## Materials:

Lab apron, gloves, eyeglasses, dissecting pan, dissecting kit with forceps & scalpel, t-pins, magnifying glass, preserved grasshopper, paper, pencil.

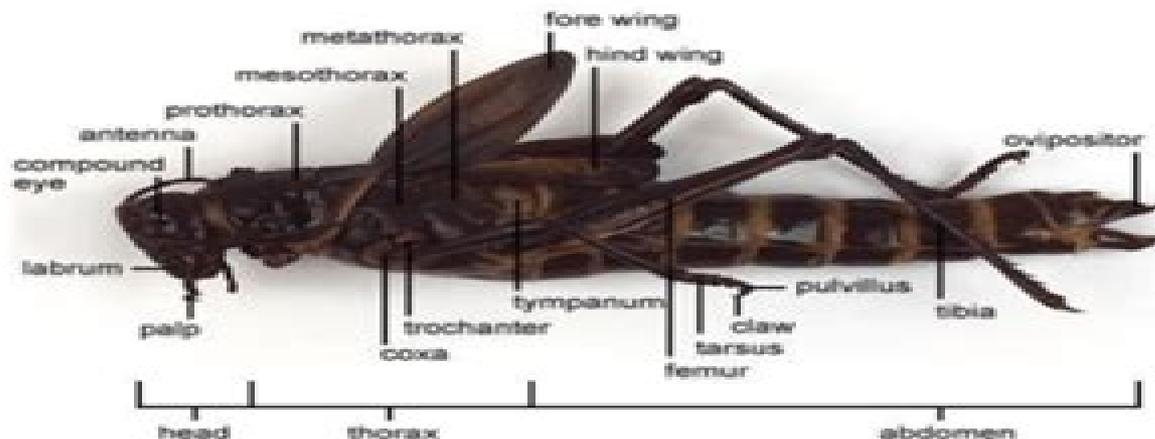
## Objective:

Identify & label the internal & external anatomy of a grasshopper.

**Procedure (Part 1: External Anatomy):** Examine the entire grasshopper and identify the major subdivisions and parts of the body.

1. Obtain a preserved grasshopper & rinse off any preservative with water. Place grasshopper in the dissecting pan.

## Grasshopper - External Features



# Grasshopper Dissection Lab Guide

**Jin-Ying Zhang**



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