

Name: _____ Date: _____

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. 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.

Objective:

Identify & label the anatomy of a grasshopper

Materials:

Lab coat, goggles, dissecting pan, dissecting kit with forceps & scalpel, pins, magnifying glass, preserved grasshopper

Safety:

Preservatives used on grasshopper can irritate your skin. Avoid touching your eyes while working with the grasshopper

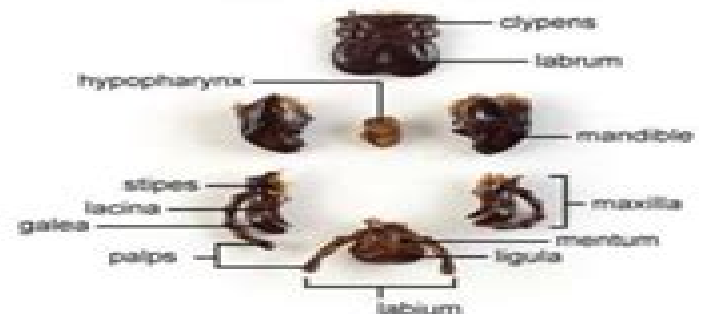
Procedure:

External Anatomy

1. Place grasshopper in the dissecting pan. Touch the chitinous exoskeleton.
2. Observe that the body of the grasshopper is divided into 3 regions — the head, the thorax, and abdomen. Label these.
3. Using the hand lens, examine the head. Locate and draw the following parts:

- Two long antennae- sensory organs for touch located at top
- Two large Compound eyes- located laterally, sensory organ for vision
- Three simple eyes or ocelli- between compound eyes and at each antennae base, sensory organ for vision

Grasshopper - Mouthparts



Grasshopper Dissection Observation And Conclusion

Answer Key

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Anthropods Biology 2004 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Flinn Scientific**
Grasshopper Dissection Guide Flinn Scientific, 2009 Grasshopper Dissection Explained, #B19 Barbara Stern
Bergman, Bergwall Productions, South Carolina Educational Television Network, South Carolina. Office of Instructional
Technology Development, 1989 Anatomy Exam-Grasshopper Dissection Bergwall Productions Inc., 1989-01-01
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