

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:

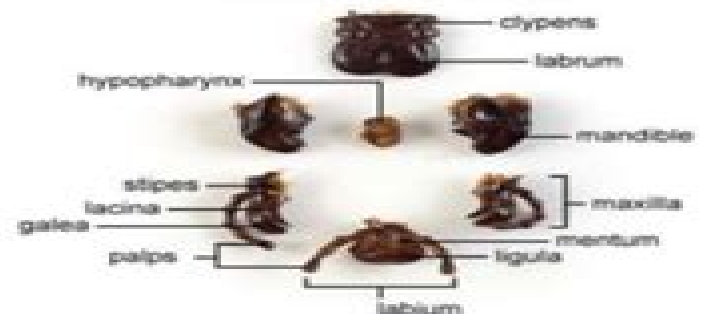
Preservatives used on grasshopper can irritate your skin. Avoid touching your eyes while working with the grasshopper

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



Observing Grasshopper Anatomy Answers

Raffaela Di Napoli



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The School Journal ,1910 *Essays and observations on natural history, anatomy, physiology, psychology, and geology*
v. 1 John Hunter,1861 **Essays and observations on natural history, anatomy, physiology, psychology and geology**
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Raymond Miller,Joseph S. Levine,1995 **Teacher's Guide to the Modern Biology Program** James Howard Otto,Albert
Towle,Elizabeth H. Crider,1965 **The School Journal** ,1910 **Interdisciplinary High School Teaching** John H.
Clarke,1997 Discusses the trend in high school classrooms away from subject based instruction and toward interdisciplinary
instruction in which students learn to apply lessons from school to areas of relevance in their lives and includes examples of
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Welsh,Prentice-Hall Staff,2001-04 One program that ensures success for all students *Utah Independent* ,1909

Mountain Time Kenneth Stafford Norris,2010 Scientist teacher author and champion of the natural world Dr Kenneth S
Norris reveals the insights gained over a lifetime devoted to learning and teaching about the natural world and human nature
and the global environmental crisis we ve helped to bring upon ourselves **The Living Church** ,1894 **Anthropods**
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Assembly,1904 **Bulletin** Alabama. Dept. of Education. Division of Secondary Schools,1914 **Nature** Sir Norman
Lockyer,1877 **America** ,1916 **Hornaday's American Natural History** William Temple Hornaday,1927

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