

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

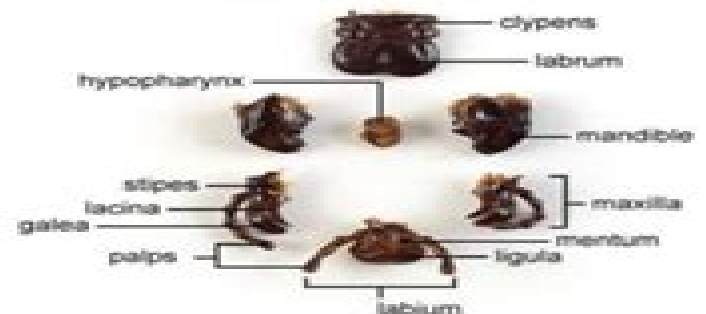
Procedure:

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



Grashopper Observation And Dissection Answers

DP Hallahan



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Contains proceedings of various teachers associations academic examination papers etc *University of the State of New York Bulletin* ,1902 *Bulletin* ,1902 *Annual Report* University of the State of New York. High School Department,1905
Grasshopper Integrated Pest Management Handbook ,1996 **Field Guide to Common Western Grasshoppers**
Robert E. Pfadt,1994 Teacher's Guide to the Modern Biology Program James Howard Otto,Albert Towle,Elizabeth H. Crider,1965 New York State Education Department Bulletin ,1905 Technical Bulletin ,1994 **Differentiation of the Serosal Membrane of the Grasshopper *Melanoplus Differentialis* (Thomas)** Carol Ann Ryder,1961 *The Loose Leaf System of Laboratory Notes, for Guidance in the Dissection and Elementary Study of Animal Types* Theo. H. Scheffer,1906 Field and Laboratory Manual in Biology Alfred Charles Kinsey,1927 State Board of Agriculture Missouri,1876 The Spectator ,1836 **The Education Gazette of the Province of the Cape of Good Hope** Cape of Good Hope (South Africa). Education Department,1928 *Case Studies in Science Education* University of Illinois at Urbana-Champaign. Center for Instructional Research and Curriculum Evaluation,1978 *Case Studies in Science Education: The case reports* ,1978 **The Spectator; a new ed. with biographcail noties of the contributors;complete in one volume** ,1850

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