

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:

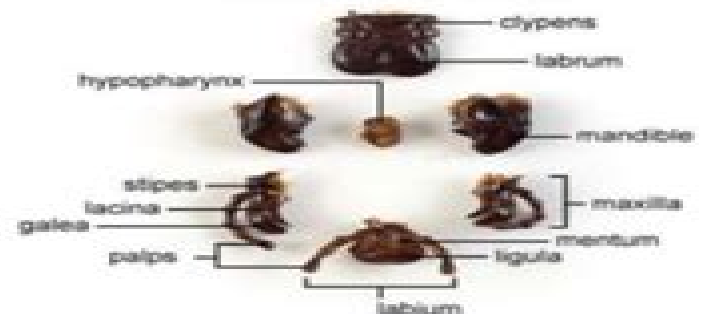
Preservatives used on grasshopper can irritate your skin. Avoid touching your eyes while working with the grasshopper

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 Lab Answers

Wenbin Ji



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Torch Answer Sheet Acer,2003
Results of Grasshopper Investigations, 1942 ,1943
Results of Grasshopper Investigations ,194?
<i>Rangeland Grasshopper Cooperative Management Program</i> ,1987
Project Report USAF School of Aerospace Medicine,1953
Flinn Scientific Grasshopper Dissection Guide Flinn Scientific,2009
<i>Honor in the Son</i> George C. Lukas,2008-05 Two Italian American brothers one a priest attempt to settle their father s debt and become embroiled with organized crime and danger in Florida in 1981
Relation of Gamma-ray Dosage Rate to Mitotic Effect in the Grasshopper Neuroblast J. Gordon Carlson,Mary Louise Snyder,Alexander Hollaender,1949
An Answer to The Dragon and Grasshopper ,1698
Field Guide to Common Western Grasshoppers Robert E. Pfadt,1994
Laboratory studies in integrated principles of zoology Cleveland P. Hickman,Frances Miller Hickman,Lee B. Kats,2000-08 This text provides coverage of the basic biological principles of zoology
Creative Character Design 2e Bryan Tillman,2019-01-24 What makes the difference between great video game animation and the purely functional and how does this relatively new medium of non linear animation creation differ from the more traditional fields of film and television This book demystifies the animation side of game development explaining every step of the process while providing valuable insights and work philosophies for creating the best possible game animation for beginners and professionals alike Taking readers through a complete game production this book provides a clear understanding of expectations of the game animator at every stage featuring game animation fundamentals and how they fit within an overall project to offer a holistic approach to the field of game animation Key Features Accumulated knowledge based on nearly two decades of insightful experience in all areas of video game animation Reinterprets the classic 12 animation principles for video games and establishes the fundamentals of creating great video game animation and how to achieve them A step by step explanation of every stage of a game production from the animator s perspective offering readers a complete understanding of the expectations of a video game animator Interviews with notable game animators featuring behind the scenes insight and advice Accompanying animation rig tutorials and other resources at www gameanim com book
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Agriculture, Rural Development, and Related Agencies Appropriations for Fiscal Year 1982: Department of Agriculture United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies,1981

Study of Grasshopper Leg Structure and Respiratory Volume Using Micro-CT Technique, and Nanoindentation Study of Cockroach Cuticle Rajib Krishna Shaha, University of Wyoming. Mechanical Engineering Department, 2013 This thesis consists of two main parts and each part represents a separate study with distinct objectives In the first part a feasibility study for building a Finite Element FE model of a grasshopper leg was conducted The second part contains a general method that was developed for computation of the respiratory volume of insects and this method was then applied to the grasshoppers to compare results from this method with respiratory volume from other established methods Grasshoppers have an amazing physical capability during jumping The grasshopper leg provides energy for jumping and it also sustains high forces during jumping For bio mimicry of the grasshopper leg structure a FE model of the leg is desired for studying the mechanics at different loading conditions Distinguishing between exoskeleton and muscles in the leg and measuring the elastic modulus of the leg exoskeleton are two of the foremost requirements for making a FE model of the grasshopper leg Therefore the first part of this work describes two studies assessing the feasibility of developing a FE model of the grasshopper leg Micro CT micro computed tomography imaging of a grasshopper leg was carried out to evaluate if this technique is a viable option for distinguishing exoskeleton and muscles Then a nanoindentation study on cockroach cuticle was done to assess the applicability of this technique for determining the elastic modulus of cuticle of insects such as the grasshopper From the micro CT scans a high resolution high contrast 3D image of a grasshopper leg was generated To obtain high quality images special sample preparation was required Fixative chemicals preserved the internal structure of the sample leg and staining chemicals allowed for high contrast by increasing the x ray attenuation gradient between soft tissues and the exoskeleton The image obtained from the micro CT scans was processed with image processing software and then studied to distinguish exoskeleton and muscle inside the leg Further image processing allowed for identification of features that potentially make the leg capable of sustaining high loads during jumping without experiencing failure Nanoindentation has been established as a prominent way for finding the mechanical properties of softer biological materials In this part of study nanoindentation was applied on cockroach cuticles to examine the feasibility of this technique on cuticle of grasshoppers and other insects Cockroach cuticle was chosen as it was readily available in the lab sample extraction was straightforward and samples of the appropriate size were suitably flat Cockroach cuticle samples from multiple locations on the cockroach body allowed for assessment of the variability in elastic modulus Further several methodological issues needed to be addressed during application of nanoindentation on the cockroach cuticle With a careful choice of testing parameters and indentation locations the quantitative distribution of elastic modulus was determined successfully from samples from different locations of the cockroach body Hence nanoindentation appears to be a viable technique to obtain elastic modulus of cuticle of other insects such as grasshopper Respiratory volume in any insect is an important part of insect physiology So in addition to studying the grasshopper leg an approach to compute the respiratory volume of a grasshopper was also developed in the second part of this research work The whole bodies of eight grasshoppers were scanned A Matlab code was developed to apply image processing of micro CT scans and to develop a fast and inexpensive method for respiratory volume determination Estimates of respiratory volume using this new approach closely matched estimates from previous studies and new estimates using an alternative volume displacement technique validating this new approach of respiratory volume determination for future studies

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