

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

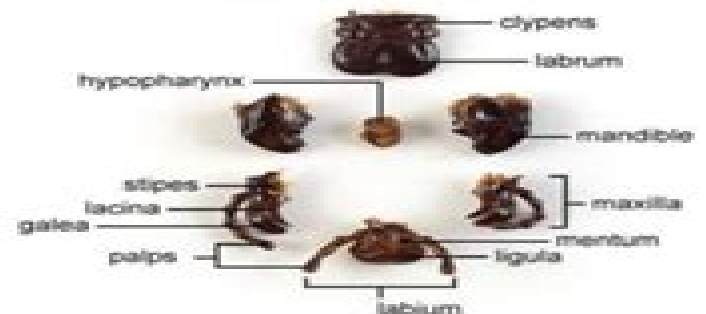
Procedure:

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 Answer Key To Questions

Yicheng Fang



Grasshopper Dissection Answer Key To Questions:

Teacher's Guide to the Modern Biology Program James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965

Instructor ,1965 **Designing Your Own Classical Curriculum** Laura M. Berquist, 2010-09-20 Home educator Laura Berquist presents a modern curriculum based on the time tested philosophy of the classical Trivium grammar logic and rhetoric She has given homeschoolers a valuable tool for putting together a liberal arts curriculum that feeds the soul as well as the intellect Her approach covering grades K 12 is detailed and practical and it is adaptable by parents and teachers to any situation This third revised edition includes a much expanded section for a high school curriculum and an updated list of resources for all grades **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home The American Biology Teacher ,1978 Includes section Books Curriculum Review ,1978 Reconstructing the Tree of Life Trevor R. Hodgkinson, John A.N. Parnell, 2006-12-26 To document the world s diversity of species and reconstruct the tree of life we need to undertake some simple but mountainous tasks Most importantly we need to tackle species rich groups We need to collect name and classify them and then position them on the tree of life We need to do this systematically across all groups of organisms and b *Let's Review* Scott Hunter, 1988 **Journal of Biological Education** ,1975 **Special Study** Science Council of Canada, 1984 **Science Education in Canadian Schools** Science Council of Canada, 1984 **The Saturday Review of Politics, Literature, Science and Art** ,1881 **Background Study** ,1984 *Science Education in Canadian Schools. Volume III. Case Studies of Science Teaching. Background Study 52* John Olson, Science Council of Canada, Ottawa (Ontario)., 1984 Volume 3 of a three volume study of science education in Canadian schools reporting 8 case studies of science teaching in action in Canadian schools Sites for intensive study were selected to include a diversity of both regions and school settings and at each school site various kinds of information were collected to obtain as complete a picture as possible Major issues addressed include integration and options as forms of curriculum organization socialization as a priority the inquiry approach and understanding and the dynamics of change and dilemmas of practice *The Contemporary Review* ,1959 Writer's Choice Taking Standardized Tests 9-10 McGraw-Hill Staff, 2000-08 **Bibliography of Agriculture with Subject Index** ,1995 *Anatomy Exam-Grasshopper Dissection* Bergwall Productions Inc., 1989-01-01 **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

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Grasshopper Dissection Answer Key To Questions Introduction

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