

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:

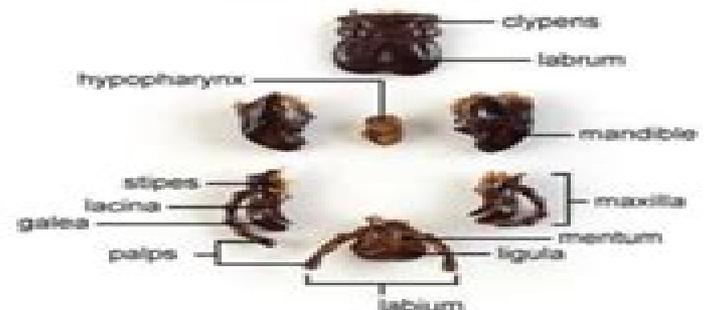
Preservatives used on grasshopper can irritate your skin. Avoid touching your eyes while working with the grasshopper

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

VM Jensen



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web in the transcription stage of protein synthesis the section of the dna molecule where the gene is located the gene coding for a particular polypeptide unwinds the hydrogen bonds between the complementary base pairs break causing the two dna strands to unzip

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web the dna bases pair together a t t a g c and c g dna is arranged in a double helix structure a gene is a short section of dna that is the genetic code for a characteristic

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web dna and protein synthesis encyclopædia britannica inc dna is an organic chemical that contains genetic information and instructions for protein synthesis it is found in most cells of every organism dna is a key part of reproduction in which genetic heredity occurs through the passing down of dna from parent or parents to offspring

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web jan 23 2023 we discuss pros and cons of each technology the need for oversight and regulatory policies for dna synthesis as a whole and give an overview of dna synthesis business models

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web sep 6 2023 dna organic chemical of complex molecular structure found in all prokaryotic and eukaryotic cells it codes genetic information for the transmission of inherited traits the structure of dna was described in 1953 leading to further understanding of dna replication and hereditary control of cellular activities

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