

## Thorax

The thorax is the middle section of the grasshopper. All six legs and both sets of wings are attached to it.

- Just behind the head is a saddle-shaped shield called the **pronotum**.
- All the **legs** have a similar structure with a **femur**, **tibia**, and **tarsus**, but the hind legs are much larger to allow the grasshopper to leap long distances. Notice the **claws** at the end of the tarsus, as well as **spurs** projecting from the base of the tibia.
- The front wings, called **tegmina**, are tough and leathery and may have dark spots. They lie over the membranous hind wings to protect them. The hind wings are used for flight, but some grasshopper species have short, round wings and are flightless as adults. (One such species is the plains lubber grasshopper, which is pictured in this guide because it is a common dissecting specimen.)



## Abdomen

The abdomen has 11 segments, the first of which is fused to the thorax.

- On the first segment, often hidden by a wing or leg, is the **tympanum**, a round, flat membrane that acts as the grasshopper's ear drum.
- The segments of the abdomen have a small opening on each side called a **spiracle**. These openings allow air to pass through and are connected to a network of air tubes (**tracheae**) inside the grasshopper. Together the spiracles and tracheae function as the grasshopper's respiratory system.
- The abdomen of the male grasshopper has a blunt end, but the females have four end projections called **ovipositors** for laying eggs.

# Grasshopper Dissection Lab Guide

**David G. Smith, Michael P. Schenk**



## Grasshopper Dissection Lab Guide:

*Exploring Zoology: A Laboratory Guide* David G. Smith, Michael P. Schenk, 2014-01-01 Exploring Zoology A Laboratory Guide is designed to provide a comprehensive hands on introduction to the field of zoology This manual provides a diverse series of observational and investigative exercises delving into the anatomy behavior physiology and ecology of the major invertebrate and vertebrate lineages Exploring Zoology: A Laboratory Guide, Third Edition David G. Smith, Michael P. Schenk, 2021-01-01 Exploring Zoology A Laboratory Guide provides a comprehensive hands on introduction to the field of zoology Knowledge of the principal groups of animals is fundamental to understanding the central issues in biology This full color lab manual provides a diverse selection of exercises covering the anatomy physiology behavior and ecology of the major invertebrate and vertebrate lineages Great care has been taken to provide information in an engaging student friendly way The material has been written to be easily adapted for use with any introductory zoology textbook *Exploring Biology in the Laboratory: Core Concepts* Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today The Latest and Best of TESS, 1991 **Teacher's Guide to the Modern Biology Program** James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965 Field Guide to Common Western Grasshoppers Robert E. Pfadt, 1994 **General Zoology Laboratory Guide** Charles F. Lytle, John R. Meyer, 2004-05 General Zoology Laboratory Manual is ideal for the laboratory that emphasizes the dissection and microscopic study of live and preserved specimens Recognized for its accuracy and readability this manual is comprehensive in its representation of the major groups of animal phyla This new edition is suitable for a wide range of course needs and structures **Field and laboratory guide** Lewis Sylvester Daugherty, Millie Crum Daugherty ("Mrs. L. S. Daugherty, "), 1912 Science Fair Project Index 1973-1980 Akron-Summit County Public Library. Science and Technology Division, 1983 Helpful in selecting projects suitable to a given age level and manageable with a home s workshop and kitchen resources WILSON LIBRARY BULLETIN Laboratory Guide for Elementary Course in General Biology John Henry Pillsbury, 1893 Flinn Scientific Grasshopper Dissection Guide Flinn Scientific, 2009 **General Zoology Laboratory Guide** Jerry Edward Wodsdalek, 1955 *Biology*, 1999 **General Biology Laboratory Guide** University of Minnesota. Department of Biology, 1961 A Laboratory Guide for Animal Biology at State University Teachers College, Cortland, New York Charles Richard Wilson, 1958 *General Biology Laboratory Guide* Jerry Edward Wodsdalek, Henry Lee Dean, Thomas Earl Rogers, 1980 **Instructor's Manual to Accompany Biology Laboratory** Carolyn Eberhard, 1987 Annual Bulletin

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