

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 Guide

Yicheng Fang



Grasshopper Dissection Guide:

Enjoying the Tune of Phrase: An Emotional Symphony within **Grasshopper Dissection Guide**

In some sort of eaten by monitors and the ceaseless chatter of quick transmission, the melodic elegance and mental symphony developed by the written word often disappear in to the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, located within the pages of **Grasshopper Dissection Guide** a charming fictional prize brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this captivating masterpiece conducts readers on a mental trip, skillfully unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths of the poignant examination, we shall investigate the book is central harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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