

## 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

**Zhe Xu**



## **Grasshopper Dissection Guide:**

## Decoding **Grasshopper Dissection Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Grasshopper Dissection Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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