

## 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

**Michael Brown**



## **Grasshopper Dissection Guide:**

## The Enigmatic Realm of **Grasshopper Dissection Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Grasshopper Dissection Guide** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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