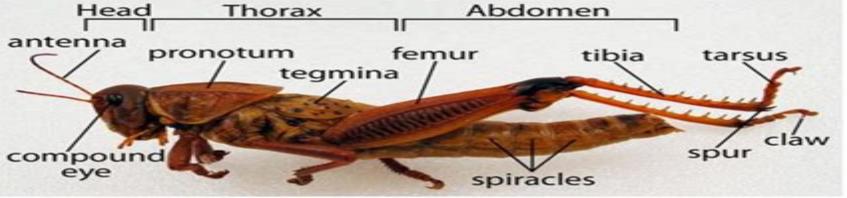
## Thorax

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

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