

# GRASSHOPPER ANATOMY & DISSECTION

**Introduction:** In this lab, you will observe the external anatomy of a preserved grasshopper. Anate structures and label a diagram. Internal anatomy is optional and can be observed after you have completed the external anatomy of the grasshopper.



**Pre-Lab Questions** (Use your book or other references)

1. Grasshoppers belong to the Kingdom \_\_\_\_\_, the Phylum \_\_\_\_\_, the Subphylum \_\_\_\_\_, and the Class \_\_\_\_\_.
2. Use what you know about classification to determine which of the following pairs is MOST closely related. [ Grasshopper & Crayfish ] or [ Grasshopper & Spider ] or [ Grasshopper & Housefly ]
3. What kind of skeleton does a grasshopper have? \_\_\_\_\_

**Anatomy of the Grasshopper** - use specimens or pictures to examine a grasshopper. Check the boxes as you complete each step.

Locate the segments of the abdomen. How many segments does your grasshopper have? \_\_\_\_\_ Compare this number to other grasshoppers in the class. Do they all have the same number of segments? \_\_\_\_\_

Note the thorax. It is the center area to which all appendages attach. The hard covering of the thorax is called the carapace.

Locate the antennae. Is the antennae branched or unbranched? \_\_\_\_\_ How many antennae are there? \_\_\_\_\_

Locate the compound eyes. How many eyes does the grasshopper have? \_\_\_\_\_

Locate the grasshopper's legs.

To what part of the body are they attached? \_\_\_\_\_ (head, thorax, or abdomen)

How many pairs of legs does the grasshopper have? \_\_\_\_\_

How many jumping legs are there? \_\_\_\_\_ How many walking legs? \_\_\_\_\_

Notice the claws at the end of the legs. Do both sets of legs have these claws? \_\_\_\_\_

Locate the wings of the grasshopper. There are actually two sets of wings - one on the top and one underneath. The top wing is called the forewing and the bottom wing is called the hindwing. Which wing seems the most fragile? \_\_\_\_\_

Turn the grasshopper over and view the mouthparts.

Find the outside most plate (like an upper lip) which is called the labrum. Its opposite is the lower plate (lower lip) called the labium.

The movable mouthparts that look like antennae are the maxilla. Locate them.

The mandible is located under the maxilla and is used for chewing.

Does the mandible open from top to bottom or from side to side? \_\_\_\_\_

Label the labrum, maxilla, and mandibles on the picture. Also label the compound eyes and antennae.



# Grasshopper Observation Dissection Answer Key

**Tobias Bleicker**



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## **Table of Contents Grasshopper Observation Dissection Answer Key**

1. Understanding the eBook Grasshopper Observation Dissection Answer Key
  - The Rise of Digital Reading Grasshopper Observation Dissection Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Grasshopper Observation Dissection Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grasshopper Observation Dissection Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grasshopper Observation Dissection Answer Key

- Personalized Recommendations
  - Grasshopper Observation Dissection Answer Key User Reviews and Ratings
  - Grasshopper Observation Dissection Answer Key and Bestseller Lists
5. Accessing Grasshopper Observation Dissection Answer Key Free and Paid eBooks
    - Grasshopper Observation Dissection Answer Key Public Domain eBooks
    - Grasshopper Observation Dissection Answer Key eBook Subscription Services
    - Grasshopper Observation Dissection Answer Key Budget-Friendly Options
  6. Navigating Grasshopper Observation Dissection Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Grasshopper Observation Dissection Answer Key Compatibility with Devices
    - Grasshopper Observation Dissection Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Grasshopper Observation Dissection Answer Key
    - Highlighting and Note-Taking Grasshopper Observation Dissection Answer Key
    - Interactive Elements Grasshopper Observation Dissection Answer Key
  8. Staying Engaged with Grasshopper Observation Dissection Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Grasshopper Observation Dissection Answer Key
  9. Balancing eBooks and Physical Books Grasshopper Observation Dissection Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Grasshopper Observation Dissection Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Grasshopper Observation Dissection Answer Key
    - Setting Reading Goals Grasshopper Observation Dissection Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Grasshopper Observation Dissection Answer Key

- Fact-Checking eBook Content of Grasshopper Observation Dissection Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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