

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 Pre Lab Instructor Answer Key

Emilie Sanchez



Grasshopper Pre Lab Instructor Answer Key:

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Table of Contents Grasshopper Pre Lab Instructor Answer Key

1. Understanding the eBook Grasshopper Pre Lab Instructor Answer Key
 - The Rise of Digital Reading Grasshopper Pre Lab Instructor Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Grasshopper Pre Lab Instructor 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 Pre Lab Instructor Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grasshopper Pre Lab Instructor Answer Key
 - Personalized Recommendations
 - Grasshopper Pre Lab Instructor Answer Key User Reviews and Ratings
 - Grasshopper Pre Lab Instructor Answer Key and Bestseller Lists
5. Accessing Grasshopper Pre Lab Instructor Answer Key Free and Paid eBooks
 - Grasshopper Pre Lab Instructor Answer Key Public Domain eBooks
 - Grasshopper Pre Lab Instructor Answer Key eBook Subscription Services
 - Grasshopper Pre Lab Instructor Answer Key Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Grasshopper Pre Lab Instructor Answer Key Compatibility with Devices
 - Grasshopper Pre Lab Instructor Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grasshopper Pre Lab Instructor Answer Key
 - Highlighting and Note-Taking Grasshopper Pre Lab Instructor Answer Key
 - Interactive Elements Grasshopper Pre Lab Instructor Answer Key
8. Staying Engaged with Grasshopper Pre Lab Instructor Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grasshopper Pre Lab Instructor Answer Key
9. Balancing eBooks and Physical Books Grasshopper Pre Lab Instructor Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grasshopper Pre Lab Instructor Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grasshopper Pre Lab Instructor Answer Key
 - Setting Reading Goals Grasshopper Pre Lab Instructor Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grasshopper Pre Lab Instructor Answer Key
 - Fact-Checking eBook Content of Grasshopper Pre Lab Instructor 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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