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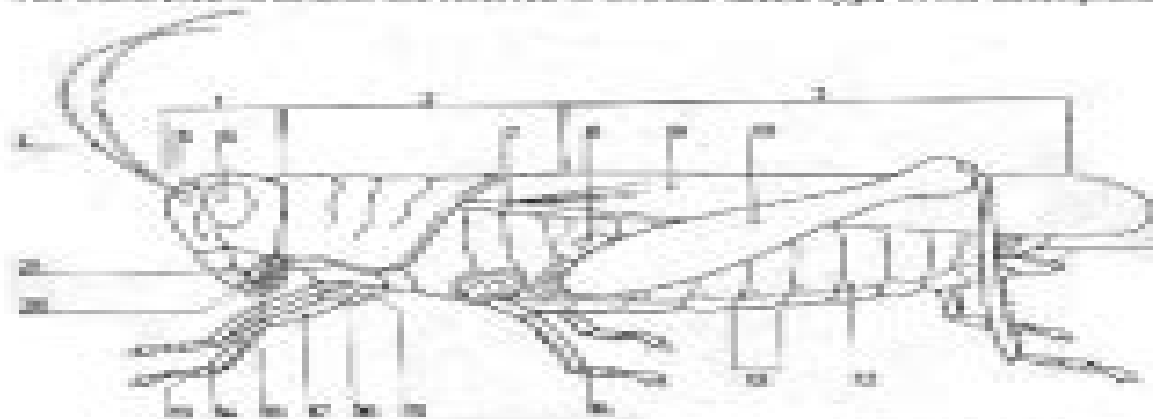
The Grasshopper: External and Internal Anatomy

Introduction:

Grasshopper morphology is relatively unspecialized as they are not greatly differentiated from the appearance of many insect groups. In fact, entomologists have found it useful in fully understood grasshopper morphology before studying groups that are more highly modified. The Eastern lubber grasshopper, *Roeckleya gamma* is a large, slow-moving locust-like insect that has reduced wings and can barely fly. They are found in the southeastern U.S. and their exceptional size and ease of capture make them favorites for dissection.

Because of their relatively small size and difficult to distinguish internal anatomy, we will be focusing on the external anatomy of the grasshopper for this dissection. In order to complete the dissection, you will need to refer to the labeled diagram below and any other diagrams you can locate in the text materials provided. Also, be sure to answer the questions found throughout this lab.

The numbered structures are referred to in **bold-faced type** in the descriptions below.



- 1. head
- 2. thorax
- 3. abdomen
- 4. antenna
- 5. mouthparts
- 6. compound eye
- 7. hindwing
- 8. tympanum
- 9. forewing
- 10. jumping leg

- 11. wingpactor
- 12. spiracle
- 13. segment
- 14. walking leg
- 15. ovum
- 16. tracheaster
- 17. furrow
- 18. tibia
- 19. tarsus
- 20. maxilla
- 21. mandible

Grasshopper Dissection Study Guide Answer Key

**John Olson, Science Council of Canada,
Ottawa (Ontario).**



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Science Education in Canadian Schools. Volume III. Case Studies of Science Teaching. Background Study 52 John Olson, Science Council of Canada, Ottawa (Ontario), 1984 Volume 3 of a three volume study of science education in Canadian schools reporting 8 case studies of science teaching in action in Canadian schools Sites for intensive study were selected to include a diversity of both regions and school settings and at each school site various kinds of information were collected to obtain as complete a picture as possible Major issues addressed include integration and options as forms of curriculum organization socialization as a priority the inquiry approach and understanding and the dynamics of change and dilemmas of practice **The Family Herald** , 1861 Bibliography of Agriculture , 1998 **Anatomy Exam-Grasshopper Dissection** Bergwall Productions Inc., 1989-01-01 Bibliography of Agriculture with Subject Index , 1995

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