

CRAYFISH DISSECTION LAB

INTRODUCTION: If numbers alone are used as a measure of success, arthropods are the most successful animals on Earth. Their adaptations are more specialized, allowing them to survive in many areas.

Sense organs, such as eyes and antennae, muscles arranged in groups, jointed legs, and a protective body covering have made it possible for these animals to become more successful than any other group of animals. Although jointed-legged animals vary greatly in structure, the basic body plan is the same.

The crayfish is a large aquatic arthropod, which means it carries its skeleton on the outside. Because of its size, and representative anatomy of the jointed-legged animals, it is a useful dissection specimen. Please use this experience to study the general organization of the external anatomy of this group of animals.

PURPOSE: To examine the crayfish as a representative example of the jointed-legged animals and to analyze the adaptations that allow it to thrive.

STANDARDS:

- 1.4 Write in various modes in all content areas
- 1.5 Produce writing of high quality
- 3.1.C Explain the parts of a simple system and their relationship to each other
- 3.3.A Describe the similarities and differences that characterize diverse living things.
- *How do animals adapt to their environment



EXTERNAL ANATOMY

PROCEDURE AND OBSERVATIONS:

- A. Put on goggles, a lab apron and gloves. Place the crayfish in the dissecting tray with its top side up. Like all crustaceans, a crayfish has an exoskeleton that covers its body. Look at the exoskeleton and find the two sections, the cephalothorax and the abdomen. The part of the exoskeleton that covers the cephalothorax is called the carapace. The abdomen is behind the cephalothorax and is also divided into sections. Count them. The abdomen ends in a segment called the telson.

1. How is the exoskeleton adapted to life on the bottom of the ocean?

- B. The carapace extends toward the front of the animal's body and forms a hard beak called the rostrum. Find the compound eyes that lie beneath the rostrum. Examine the eyes with a hand lens and see if you can observe the many lens facets that make up a compound eye. Observe the diagrams and models of lens facets/compound eyes provided by your teacher.

2. What is the difference between a compound eye and your eye?

Crayfish Lab Answers

Albert Kaskel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Albert Kaskel.

Crayfish Lab Answers:

Laboratory Exercises for Freshwater Ecology John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports

40 Inquiry Exercises for the College Biology

Lab A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

Undisciplined Animals Pär Segerdahl, 2011-05-25 Animal studies is not a discipline of its own but emerged simultaneously within many disciplines such as sociology geography biology art history education research philosophy anthropology film studies political science and gender research Animal studies stands for a transformed way of doing scholarly work always through the lens of the human animal relationship If anything keeps the field together it is the productive incoherence that it creates wherever it challenges human centred modes of work What does it mean to do animal studies Due to the essential undisciplinarity of the field a traditional textbook approach could not answer the question Undisciplined Animals is a series of confessions this is how I and my basic outlook changed through the efforts of unruly animals neither of us happily adapting to human centred perspectives The hope is that readers will recognize the same productive tensions in their own work that the book will help them use these tensions and not hide them as breaches of disciplinary rules Undisciplined Animals is a collection of invitations to animal studies addressed to emerging scholars in a variety of fields who want to see how animal studies can vitalize work in their disciplines The chapters are intersected by short interludes that describe an experience a notion or a thought that secretly drives the author's work These interludes reveal animal studies to transgress not only disciplinary borders but also borders between the academic and the personal

Instructor's Guide to the CCA Basic Skills Reading Comprehension

Curriculum, 1990 Crustacean Experimental Systems in Neurobiology Konrad Wiese, 2012-12-06 This book represents

Part 2 of a venture started by distinguished neuroscientists to visualize and advertise the experimentally advantageous preparations of the crustacean nervous system. The advantage is a combination of ease of dissection of key structures and the possibility of repeatedly accessing identified individual cells to measure the detailed response of the system to the experimentally imposed stimulus program. Of course the neurosciences have to focus their research on the nervous system of mammals and man in order to understand the principles of function and their regulation if malfunctions occur. This is in line with efforts to investigate nervous systems throughout the animal kingdom. The specific potential of the encountered systems for exploratory research into hitherto unexplained functions of the brain may very well be a key to new insights. The simply organized nervous system of crustaceans performs tasks of vital importance imposed on the organism. Hence this system consists of a complete set of neural circuitry open for inspection and measurement by systematic investigation. The first volume *The Crustacean Nervous System* contains exhaustive reports on experimental work from all sectors of neuroscience using crayfish and lobsters. This second volume *Crustacean Experimental Systems in Neurobiology* contains excellent reviews on significant topics in neurobiology. Each section is introduced by short texts written by the section editors of the *Crustacean Nervous System*. More prominent authors explain their approach to understanding the brain using a selection of experiments involving visual orientation, neuromuscular systems and identification of principles of neural processing.

Exploring Animal Behavior in Laboratory and Field Heather Zimbler-DeLorenzo, Susan W. Margulis, 2021-07-19 *Exploring Animal Behavior in Laboratory and Field* Second Edition provides a comprehensive manual on animal behavior lab activities. This new edition brings together basic research and methods presenting applications and problem solving techniques. It provides all the details to successfully run designed activities while also offering flexibility and ease in setup. The exercises in this volume address animal behavior at all levels describing behavior theory application and communication. Each lab provides details on how to successfully run the activity while also offering flexibility to instructors. This is an important resource for students, educators, researchers and practitioners who want to explore and study animal behavior. The field of animal behavior has changed dramatically in the past 15-20 years including a greater use and availability of technology and statistical analysis. In addition, animal behavior has taken on a more applied role in the last decade with a greater emphasis on conservation and applied behavior hence the necessity for new resources on the topic. Offers an up to date representation of animal behavior. Examines ethics and approvals for the study of vertebrate animals. Includes contributions from a large field of expertise in the Animal Behavior Society. Provides a flexible resource that can be used as a laboratory manual or in a flipped classroom setting. **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert

Kaskel, 1994-04-19 *Schizoanalysis and Animal Science Education* Helena Pedersen, 2020-09-17 Within the education system acts of violence toward animals take place and are manifested on a routine basis in science classes in lecture halls in school canteens and during study visits to zoos, farms and slaughterhouses. Taken for granted as necessary for teaching and

learning this violence profoundly affects animals as well as students It also provides new entry points for understanding education as a multispecies power regime driven by numerous other investments than knowledge dissemination alone What then is the nature of this educational violence and how exactly does education work through techniques of interference with student and animal bodies Based on ethnographic research within upper secondary schools and higher education this book challenges the use of animals in education by innovative engagement of Deleuze and Guattari s tool of schizoanalysis Sparking a fundamental rethinking of educational processes relations and aims the book explores how scientific knowledge about animals proliferates through complex interplay of power and desire in contested spaces of teaching and learning Configuring animal science education as a set of machines working in tandem with the animal industry Helena Pedersen offers radical new insights into how education forms subjectivities and social orders under conditions of capitalist expansion that capture students and animals alike Bringing together education studies science studies critical animal studies and continental philosophy Pedersen also provides examples of disruptive action that can put education to work for transformation and liberation

Basic Life Science ,1964 Modern Approaches to the Study of Crustacea Elva Escobar-Briones,Fernando Alvarez,2012-12-06 This volume is organized in four sections physiology ecology conservation and biodiversity and systematics and evolution Composed of 46 chapters and written by 100 authors from 17 countries this volume reflects the truly international nature of the Crustacean Society It will be a staple for all researchers and scientists in the field *Biology* ,1999 **Glencoe Science** ,2002 *Teacher* ,1980 *The Iowa Alumni Review* ,1977 Annotated Instructor's Edition for Investigating Biology Judith Giles Morgan,1999 **Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications** James W. [et. al]. Perry,2002 Perspectives on Auditory Research Arthur N. Popper,Richard R. Fay,2014-03-22 Perspectives on Auditory Research celebrates the last two decades of the Springer Handbook in Auditory Research Contributions from the leading experts in the field examine the progress made in auditory research over the past twenty years as well as the major questions for the future *My Life in the Fish Tank* Barbara Dee,2021-11-02 When twelve year old Zinnia Manning s older brother Gabriel is diagnosed with bipolar disorder it turns her family s world upside down especially since they are keeping the information private Provided by Publisher Canadian Journal of Fisheries and Aquatic Sciences ,1989 **Lessons from the Lobster** Charlotte Nassim,2018-06-26 How forty years of research on thirty neurons in the stomach of a lobster has yielded valuable insights for the study of the human brain Neuroscientist Eve Marder has spent forty years studying thirty neurons on the stomach of a lobster Her focus on this tiny network of cells has yielded valuable insights into the much more complex workings of the human brain she has become a leading voice in neuroscience In Lessons from the Lobster Charlotte Nassim describes Marder s work and its significance accessibly and engagingly tracing the evolution of a supremely gifted scientist s ideas From the lobster s digestion to human thought is very big leap

indeed Our brains selectively recruit networks from about ninety billion available neurons the connections are extremely complex Nevertheless as Nassim explains Marder s study of a microscopic knot of stomatogastric neurons in lobsters and crabs a small network with a countable number of neurons has laid vital foundations for current brain research projects Marder s approach is as intuitive as it is analytic but always firmly anchored to data Every scrap of information is a pointer for Marder her discoveries depend on her own creative thinking as much as her laboratory s findings Nassim describes Marder s important findings on neuromodulation the secrets of neuronal networks and homeostasis Her recognition of the importance of animal to animal variability has influenced research methods everywhere Marder has run her laboratory at Brandeis University since 1978 She was President of the Society for Neuroscience in 2008 and she is the recipient of numerous awards including the 2016 Kavli Award in Neuroscience and the 2013 Gruber Prize in Neuroscience Research that reaches the headlines often depends on technical fireworks and especially on spectacular images Marder s work seldom fits that pattern but this book demonstrates that a brilliant scientist working carefully and thoughtfully can produce groundbreaking results

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