

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 Synopsis

**R. Chengalath, National Museum of
Natural Sciences (Canada).
Invertebrate Zoology Division**

Crayfish Lab Synopsis:

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

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

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 **Agrindex** ,1992 *Fisheries Review* ,1987

Nuclear Science Abstracts ,1956 **Annual Report - Marine Biological Station, University of Liverpool, Port Erin, Isle of Man** Marine Biological Station at Port Erin, Isle of Man,1980 **The Zoological Record** ,1988 *Synopsis Speciorum* R. Chengalath,National Museum of Natural Sciences (Canada). Invertebrate Zoology Division,1987 *Engaging Students in Academic Literacies* María Estela Brisk,2014-07-25 The Common Core State Standards require schools to include writing in a variety of genres across the disciplines Engaging Students in Academic Literacies provides specific information to plan and carry out genre based writing instruction in English for K 5 students within various content areas Informed by systemic functional linguistics a theory of language IN USE in particular ways for particular audiences and social purposes it guides teachers in developing students ability to construct texts using structural and linguistic features of the written language This approach to teaching writing and academic language is effective in addressing the persistent achievement gap between ELLs and mainstream students especially in the context of current reforms in the U S Transforming systemic functional linguistics and genre theory into concrete classroom tools for designing implementing and reflecting on instruction and providing essential scaffolding for teachers to build their own knowledge of its essential elements applied to teaching the text includes strategies for apprenticing students to writing in all genres features of elementary students writing and examples of practice *U.S. News & World Report* ,1998 **Annual Report** Nebraska. State Board of Agriculture,1902

The Acid Rain Index ,1985 *Acid Rain Abstracts* ,1986 **Sport Fishery Abstracts** ,1986 *Journal of the Royal Microscopical Society* ,1890 **Biology** Warren D. Dolphin,1991 *Ecophysiology of the European Green Crab (Carcinus maenas) and Related Species* Dirk Weihrauch,Iain McGaw,2023-08-18 *Ecophysiology of the Green Shore Crab Carcinus maenas and Related Species* Mechanisms Behind the Success of a Global Invader provides an in depth perspective of this devastatingly invasive coastal species During the last 175 years Carcinus maenas has spread around the globe by human activities Because of its ability to flourish in a wide variety of ecosystems and outcompete native species it has been listed as one of the top 100 worst global invaders Written by international experts this book focuses on Carcinus maenas and discusses other brachyurans with similar physiologies as comparisons including control systems and mechanisms used This

book serves as a valuable resource for researchers in marine biology and invasive biology as well as for university lecturers government or environmental agencies Gathers all information on ecological physiology of this important species into one place Discusses how this one species of crab has managed to be spread around the globe and survive in many different environments Features a chapter by First Nations members on how this species may impact indigenous fisheries and culture

Natural History Inventory of Colorado ,1978

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