

Perch Dissection Lab Guide

SNC 2D1

Background Information

Fish are the largest group of vertebrates found in fresh and salt water. In fact, over 25,000 species of fish comprise about 50% of the vertebrate population. Part of the reason for the large numbers of fish is due to how well adapted they are to life in an aquatic environment. In this laboratory you will observe the internal and external structures of a perch, a typical bony fish. You will see how its structures make it ideally suited to living in an aquatic environment.

Problem

How are the structures of the perch adapted to life in the water?

Materials (per group)

- Preserved Grey perch: *Perca flavescens*
- One dissecting kit including
 - 1 forceps
 - 1 scissors
 - 2 sharp probes
- Dissecting pan
- Hand lens
- Dissecting microscope (optional)

Procedure

Part A: Observing the Fish's External Anatomy

1. Ensure each group member is wearing an apron and goggles properly.
2. Obtain one pair of vinyl gloves per group member.
3. Place the fish in the dissecting pan.
4. Immediately wash the perch in the sink to remove as much preservative fluid as possible.
5. Locate all the external structures as shown in Figure 1 on your specimen and then answer the questions in Observations.

Figure 1



Perch Dissection Lab Key

Holt Rinehart & Winston

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the slide.

Perch Dissection Lab Key:

Biology, 1999 **Genetic Dissection of Important Traits in Aquaculture: Genome-scale Tools Development, Trait Localization and Regulatory Mechanism Exploration** Peng Xu, Lior David, Paulino Martinez, Gen Hua Yue, 2020-07-31 **Inquiry Skills Development** Holt Rinehart & Winston, 1998-01-27 **The Use of Concept Mapping and Gowin's "V" Mapping Instructional Strategies in Junior High School Science**, 1981 *Designing Your Own Classical Curriculum* Laura M. Berquist, 2010-09-20 Home educator Laura Berquist presents a modern curriculum based on the time tested philosophy of the classical Trivium grammar logic and rhetoric She has given homeschoolers a valuable tool for putting together a liberal arts curriculum that feeds the soul as well as the intellect Her approach covering grades K 12 is detailed and practical and it is adaptable by parents and teachers to any situation This third revised edition includes a much expanded section for a high school curriculum and an updated list of resources for all grades *Chapter Resource 32 Introduction/Vertebrates Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *The Dissection of Vertebrates* Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation [Animal Welfare Information Center Newsletter](#), 2000 **Animal Welfare Information Center Bulletin**, 2000 [Turttox News](#), 1923 **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1997-11 **Carolina Science and Math** Carolina Biological Supply Company, 2003 **Selected Water Resources Abstracts**, 1975 **The American Biology Teacher**, 1978 Includes section Books **The AV Magazine**, 1996 [Animals in Environmental Education](#) Teresa Lloro-Bidart, Valerie S. Banschbach, 2019-01-04 This book explores interdisciplinary approaches to animal focused curriculum and pedagogy in environmental education with an emphasis on integrating methods from the arts humanities and natural and social sciences Each chapter whether addressing curriculum pedagogy or both engages with the extant literature in environmental education and other relevant fields to consider how interdisciplinary curricular and pedagogical practices shed new light on

our understandings of and ethical moral obligations to animals Embracing theories like intersectionality posthumanism Indigenous cosmologies and significant life experiences and considering topics such as equine training meat consumption and production urban human animal relationships and zoos and aquariums the chapters collectively contribute to the field by foregrounding the lives of animals The volume purposefully steps forward from the historical marginalization of animals in educational research and practice *Biological Investigations Lab Manual* Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June

Chapter Resource 33 Fishes and Amphibians Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Digital Zoology Jon Houseman, 2001 This CD ROM provides students in the whole animal Biology courses such as General Zoology Invertebrate Zoology and Vertebrate Zoology with an interactive guide to the specimens and materials that they will be studying in their laboratory and lecture sessions Lab modules are the biggest components of Digital Zoology and each contain illustrations photographs and annotations of the major structure of organisms and microscope slides commercially available from the suppliers used by high schools and universities Lab modules are combined with explanations of the various animal groups and interactive cladograms that allow students to investigate the major evolutionary events that have given rise to the tremendous diversity of animals that we find on the planet

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