

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)

Classification

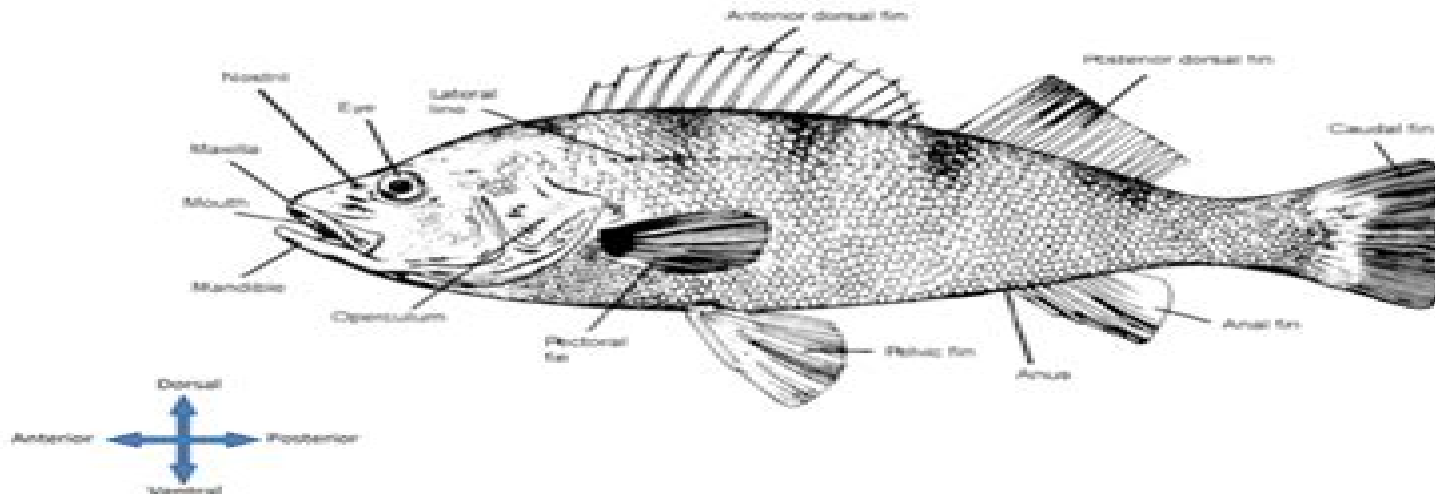
Kingdom: Animalia
Phylum: Chordata
Subphylum: Vertebrata
Class: Actinopterygii
Order: Perciformes
Suborder: Percoidae
Family: Percidae
Genus: *Perca*
Species: *flavescens*

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 Pre Lab Dissection Information

BM King



Perch Pre Lab Dissection Information:

Biology, 1999 Biology/science Materials Carolina Biological Supply Company, 1991 **Teaching the Classification of Vertebrate Animals by Comparing the Anatomy Within Each System** Pamela Ruth Lehman-Nutt, 1999 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 **Why Dissection?** Lynette A. Hart, Mary W. Wood, Benjamin L. Hart, 2008-02-28 Why do students continue to dissect animals in biology classes Why despite the excellence of teaching resources for veterinary and human medical education that substitute for dissection do those provided for pre college students fall short in convenience flexibility and coordination with the curriculum Why Dissection Animal Use in Education looks beyond the typical yes or no debate about dissection to understand how we came to our current practice of dissection in intermediate and high school biology even as preparation of health professionals has moved away from dissection Despite the many forces that support the continued use of dissection in pedagogy teachers retain much autonomy in how they teach in the classroom and legislation in many states provide specific requirements for what should and should not be taught in separated science and health curricula offering students the option to not engage in dissection Why Dissection walks students teachers and parents through these options to help them make more informed choices regarding their science education options **The Anatomical Record** Charles Russell Bardeen, Irving Hardesty, John Lewis Bremer, Edward Allen Boyden, 1925 Issues for 1906 include the proceedings and abstracts of papers of the American Association of Anatomists formerly the Association of American Anatomists 1916 60 the proceedings and abstracts of papers of the American Society of Zoologists **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1992 **The University of Tennessee Register for ... and Announcement for ...** University of Tennessee (Knoxville campus), 1947 Annual Catalogue of the Officers and Students of Franklin College, Franklin, Indiana Franklin College (Franklin, Ind.), 1909 **Bulletin** Mississippi College, 1959 *Catalog of Copyright Entries. Third Series* Library of Congress.

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January June **Turtox News** ,1923 **Laboratory Studies in Biology** Chester Alvin Lawson,1955 *Ohio University
Bulletin* Ohio University,1913 **Bulletin of the University of Rhode Island** ,1940 Journal of the American Medical
Association ,1898 **The Jamestown College Bulletin** Jamestown College,1919 **Annual Catalogue of Lincoln
University** Lincoln University (Pa.),1936 **The American Biology Teacher** ,1992 *Library Journal* ,1967-10

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