

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)

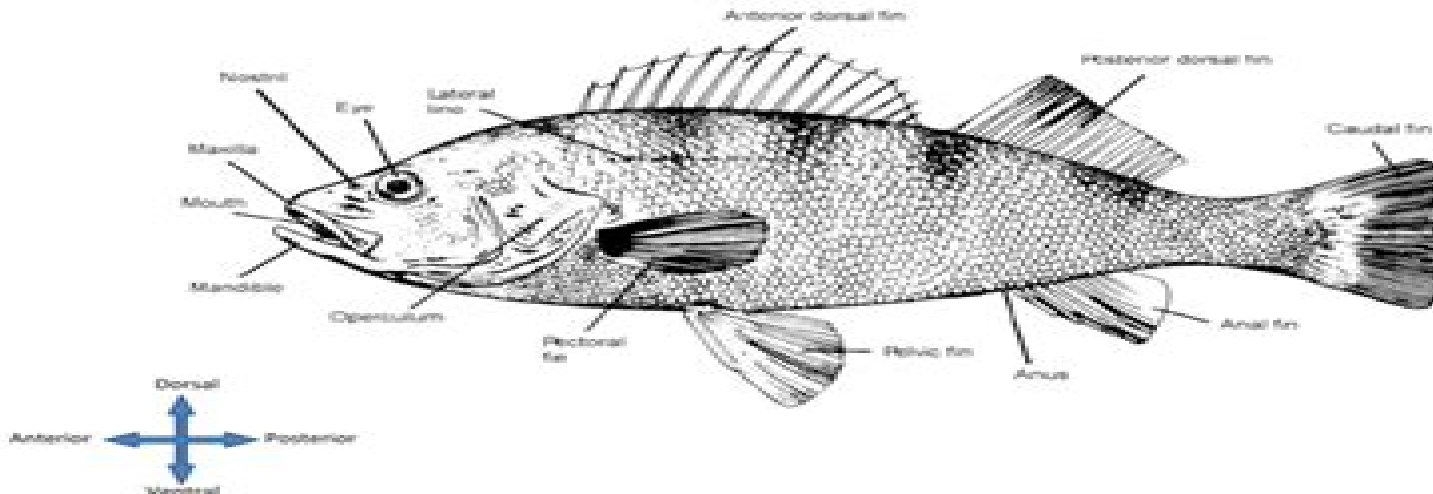
- Preserved Grey perch: *Perca flavescens*
- One dissecting kit including
 - 1 forceps
 - 1 scissors
 - 2 sharp probes
- Dissecting pan
- Hand lens
- Dissecting microscope (optional)

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



Classification

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

Perch Dissection Lab Key

Wolfgang Guggemos

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

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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 *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 **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**
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