

# 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*

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**JE Gale**



## Perch Dissection Lab Guide:

*Biology*, 1999     **CK-12 Biology Teacher's Edition** CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook     **The Latest and Best of TESS**, 1991     **Inquiry Skills Development** Holt Rinehart & Winston, 1998-01-27     **A Look at Life** Carol S. Crowder, Mary A. Durant, 1999-08  
Biology/science Materials Carolina Biological Supply Company, 1991     School Library Journal, 1991     **Biology** John Moore, 2004-08 Teacher Manual for Biology A Search for Order in Complexity     **The Software Encyclopedia**, 1985  
**Laboratory Instructions in Plant Biology** John Bernard Parker, 1950     *Animal Welfare Information Center Bulletin*, 2000     Animal Welfare Information Center Newsletter, 2000     **Manual of Comparative Anatomy** E. Bruce Holmes, 1975     **Health Science Books, 1876-1982**, 1982     *Christian Home Educators' Curriculum Manual* Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home     *The Science Teacher's Book of Lists* Frances Bartlett Barhydt, M.A., Paul W. Morgan, Ph.D., 1993-02-15 Over 290 reproducible lists organized into 12 sections Plants Animals Health Nutrition Chemistry Physics Earth Science Meterology Aviation Space Science Measurements Numbers Scientists Their Contributions Science Education Resources and Potpourri Individual lists include Carnivorous Plants Compositions of Substances Around the Household and Noted Women Scientists     *The American Biology Teacher*, 2004     Middle School Science & Technology, 1994     **Bowker's Medical Books in Print**, 1975     **Medical Books and Serials in Print**, 1983

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