

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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