

## Skills Practice Lab

# Perch Dissection

Perch are members of the Class *Osteichthyes*, or bony fishes. Food enters the fish's mouth and passes through the *stomach* and into the *intestine*. Digestion is aided by *bile* produced by the liver, which is attached to the intestine. Solid waste passes out through the *anus*.

Wastes from metabolism are processed by *kidneys* and pass out through the *urogenital opening*. Oxygen is obtained from the water as it passes over the *gills*. Waste carbon dioxide is passed into the water at the same time.

Movement is achieved by the action of *muscles* attached to the bony skeleton of the fish and is guided by the action of several types of *fins*. The fish has an *air bladder* in its body to help it stay afloat. The amount of gas in the bladder is adjusted by *gas exchange* across the capillaries in the air bladder wall. The *lateral line*, found on the outside of the body, allows the fish to sense differences in pressure and to sense low-frequency sounds.

In this lab, you will dissect a fish in order to observe the external and internal structures of fish anatomy.

## OBJECTIVES

**Describe** the appearance of various organs in a perch.

**Name** the organs that make up various systems of a perch.

**Compare** the features of a perch to other organisms.

## MATERIALS

- dissecting pins
- dissection tray
- forceps
- gloves
- lab apron
- preserved perch
- probe
- safety goggles
- scalpel
- scissors



## Procedure

1. Put on safety goggles, gloves, and a lab apron.
2. Place a fish on a dissection tray with the head on your left. Use **Figure 1** to locate and identify the external structures of the fish. The head includes the mouth, *nostrils*, eyes, and *operculum* (gill cover). Turn the fish as needed.
3. Use your fingers to pry open the mouth, and note the teeth.
4. Use forceps to lift back the operculum, and observe the comblike gills underneath.
5. Identify the scales on the skin, the lateral line, the anus, and the urogenital opening. Then locate and identify the different types of fins: *dorsal* (back), *pectoral* (shoulder), *pelvic* (hip), *anal*, and *caudal* (tail).

# Holt Biosources Lab Program Perch Dissection Answers

**CH Cherryholmes**



**Holt Biosources Lab Program Perch Dissection Answers:**

## Enjoying the Tune of Term: An Emotional Symphony within **Holt Biosources Lab Program Perch Dissection Answers**

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