

the tail region extends from the anus to the tip of the caudal fin. The entire fish (with the exception of the fins and part of the head) is covered in scales that fit together like overlapping roof shingles. These scales protect the fish and make it hydrodynamic for easy movement through the water as it swims. If you stroke the fish posterior to anterior it will feel rough like sandpaper, but if you stroke it in the opposite direction it will feel smooth.

Look for the **mouth**, **eyes**, and **nostrils**. The mouth has two jaw parts: an upper **maxilla** and a lower **mandible**. If you open the jaws wide enough you should be able to locate the tongue as well. The eyes are lidless, but you should be able to see a transparent shell covering each eye, much like a pair of swimming goggles.

The operculum mentioned earlier is a thin bony structure that covers the gills, which provides protection and allows the fish to pump water through the gills. The **lateral line** is visible on both sides of the perch and extends all the way to the tail. It consists of tiny hair-like sensory organs that can detect turbulence in the water. This allows the fish to orient itself, navigate, chase prey, and swim in schools with other fish.

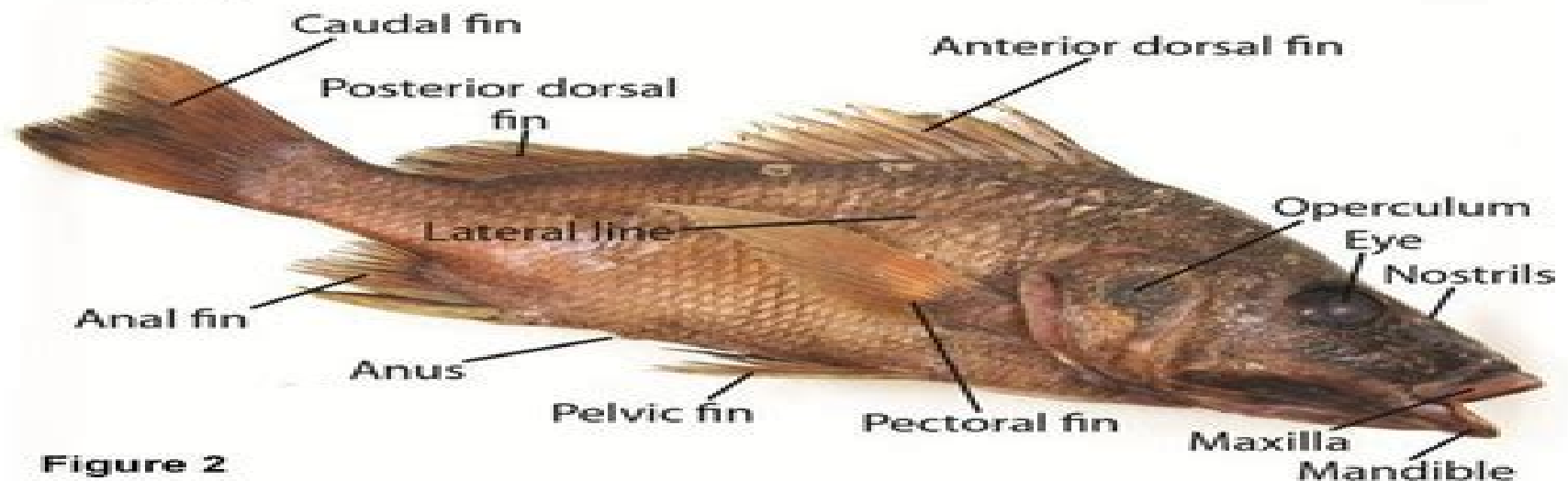


Figure 2

The **pectoral fins** are found on the sides of the fish, and the **pelvic fin** is just posterior on the ventral side. The **anal fin** is also on the ventral side, just posterior to the **anus** and **urogenital organ**. The **caudal fin** is at the tip of the tail, and the **posterior** and **anterior dorsal fins** are found on the dorsal side along the spine. All of the perch's fins are made from a membranous structure attached to spiny rays. The rays on the anterior dorsal fin are especially spiny; be careful not to poke yourself with these

Perch Anatomy Guide Answers

Ensheng Dong



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