

Marine Biology Chapter 7: Study Guide

Jawless Fish

- Know the general characteristics of a jawless fish
- Know the characteristics of hagfish and lampreys

Cartilaginous Fish

- Vocabulary

Scales

Demersal

- Know the general characteristics of a cartilaginous fish
- Know the characteristics of sharks, rays, skates and rat fish
- Be able to label the diagram of a shark
- Be able to identify the characteristics of the following sharks

Whale shark

Sawshark

Megalodon

Basking shark

Great White shark

Hammerhead shark

Bull shark

- Know some of the issues with sharks including why they are hunted and what is becoming of them because they are being hunted

Bony Fish

- Vocabulary

Ichthyology

Fin rays

Swim bladder

Gill cover

- Know the general characteristics of a bony fish
- Be able to label a diagram of a bony fish

Fish Biology

- Vocabulary

Chromatophores

Gill filaments

Migration

Warning coloration

Hemoglobin

Anadromous

Cryptic coloration

Myoglobin

Catadromous

Disruptive coloration

Central nervous system

Spawning

Countershading

Olfactory sacs

Sex reversal

Myomeres

Taste buds

Courtship

Gill rakers

Barbels

Mating

Grazers

Lateral line

Oviparous

Irrigate

Ampullae of Lorenzini

Ovoviviparous

Spiracles

Territories

Viviparous

Gill arches

Schools

- Know why body shape differs between bony fish and some examples of those differences
- Know the importance of camouflage and body coloration
- Know the four types of coloration patterns and their purpose
- Know what muscles, fins and organs are used in locomotion of bony and cartilaginous fish
- Know what types of prey sharks, rays and bony fish eat

- Know why mouth shape differs between bony fish
- Be able to identify the route that blood travels through a fish
- Know how the gills work and how they are efficient in their purpose
- Know how oxygen is transported to the tissues in fish
- Be able to describe how bony fish and cartilaginous fish maintain homeostasis by replacing water lost due to osmosis
- Be able to describe the characteristics and purpose of the central nervous system and all of the accompanying sensory organs
- Be able to describe what territoriality is and some of the reasons a fish may perform those behaviors
- Be able to describe what a school is and some of the reasons why fish school
- Know the different reproduction methods in fish
- Be able to describe the purpose of courtship and mating rituals