

Vertebrates Intro & Fish

Relevant Portions of Text

- Chapter 34 sections 34.2 & 34.3
- "organization of vertebrate circulatory systems on pg 918
- Respiratory material on pg 933-935 (stop at "tracheal systems in insects")
- Osmoregulation material on pgs 972-974

Objectives and Study Questions:

1. What are the derived characteristics of vertebrates?
2. What are the derived characteristics of gnathostomes?
3. What are the derived characteristics of osteichthyes?
4. Compare and contrast the following groups: vertebrates, cyclostomes, gnathostomes, & osteichthyes.
5. Describe Hagfish in terms of their anatomy, feeding, defense, and habitat
6. Describe lamprey in terms of their anatomy, feeding, defense, and habitat
7. Compare and contrast hagfish and lamprey
8. What types of organisms belong to Chondrichthyes?
9. Describe the basic characteristics of Chondrichthans
10. Describe the characteristics and anatomy of sharks (our model chondrichthyan) in terms of:
 - ability to swim/maneuver
 - their buoyancy and the role of the liver and oil in buoyancy
 - ventilation (movement of water across) of gills
 - their digestive tract (including spiral valve)
 - senses including ampulae of Lorenzini
 - reproduction (including fertilization)
 - Cloaca
 - Teeth
11. Compare and contrast oviparity, ovoviparity, and viviparity
12. Does the clade Osteichthyes include amphibians, reptiles, and mammals?
13. List the three groups of bony fish and the characteristics they all have in common including:
 - Gills and operculum
 - Ventilation of gills
 - Control over buoyancy
 - Skin/scales and other body coverings
 - Lateral line
 - Typical fertilization and reproduction
14. Compare and contrast bony fish and cartilaginous fish
15. Compare and contrast ray-finned fish (Actinopterygii) and lobed finned fish
16. Describe lung fish (Dipnoi) in terms of habitat and use of lungs compared to gills for gas exchange

Introduction To Vertebrates Study Guide

L Reisser



Introduction To Vertebrates Study Guide:

Introduction To Vertebrates Study Guide Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Introduction To Vertebrates Study Guide**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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