

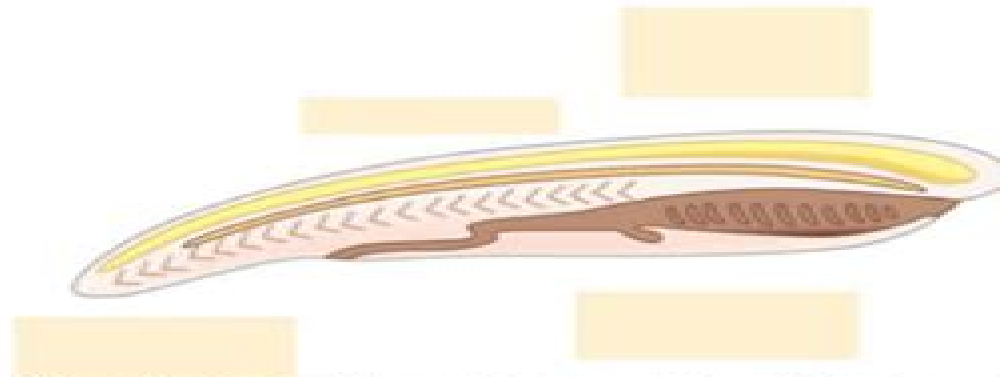
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Biology Reading Guide Chapter 34: Vertebrates Fred and Theresa Holtzclaw Copyright © 2010

Chapter 34: Vertebrates

Concept 34.1 Chordates have a notochord and a dorsal, hollow nerve cord

1. We are vertebrates. What phylum do we belong to?
2. Here is a figure showing the four key chordate characteristics. Label and explain each one.



3. One of the important characteristics is a *notochord*. What is a *notochord*? For us, as vertebrates, what remains of the *notochord*?
4. *Pharyngeal gill slits* develop into what structures in the fishes?

Concept 34.2 Vertebrates are craniates that have a backbone

5. What is the oldest lineage of vertebrates? _____ They are *jawless* parasitic fish with a skeleton made of _____.

Concept 34.3 Gnathostomes are vertebrates that have jaws

6. What animals are in the clade *Chondrichthyes*?
7. What does the name *Chondrichthyes* mean? What material makes up their skeleton?
8. The “fishes” with a bone skeleton are aquatic *Osteichthyes*.
9. What is the function of a swim bladder?

Concept 34.4 Tetrapods are gnathostomes that have limbs

Chapter 34 Vertebrates Guide Answers

**David K. James, Philip J. Steer, Carl P.
Weiner, Bernard Gonik**



Chapter 34 Vertebrates Guide Answers:

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Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information **Modern Biology** James Howard Otto, 1985 **The Evolutionary Biology of Hearing** Douglas B. Webster, Richard R. Fay, 2012-12-06 To develop a science of hearing that is intellectu The five day conference was held at the Mote ally satisfying we must first integrate the diverse Marine Laboratory in Sarasota Florida May extensive body of comparative research into an 24 1990 The invited participants came from the evolutionary context The need for this integra fields of comparative anatomy physiology biophys tion and a conceptual framework in which it could ics animal behavior psychophysics evolutionary be structured were demonstrated in landmark biology ontogeny and paleontology Before the papers by van Bergeijk in 1967 and Wever in 1974 conference preliminary manuscripts of the invited However not since 1965 when the American papers were distributed to all participants This facilitated even encouraged discussions through Society of Zoologists sponsored an evolutionary conference entitled The Vertebrate Ear has there out the conference which could be called among other things lively The preview of papers along been a group effort to assemble and organize our current knowledge on the evolutionary as with the free exchange of information and opinion opposed to comparative biology of hearing also helped improve the quality and consistency of In the quarter century since that conference the final manuscripts included in this volume there have been major changes in evolutionary In addition to the invited papers several studies concepts e g punctuated equilibrium in sys were presented as posters during evening sessions *Life Study Guide* David E. Sadava, Gordon H. Orians, Craig

Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-03 **Study Guide** Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities **Asha** American Speech-Language-Hearing Association, 1989-08 **Vertebrate Sexual Cycles** William Sydney Bullough, 1951 **The Living World Basic Concepts** George Johnson, 2005-04-01 **Zoology** Stephen A. Miller, John P. Harley, 1993 The new 7th edition of Zoology continues to offer students an introductory general zoology text that is manageable in size and adaptable to a variety of course formats It is a principles oriented text written for the non majors or the combined course presented at the freshman and sophomore level Zoology is organized into three parts Part One covers the common life processes including cell and tissue structure and function the genetic basis of evolution and the evolutionary and ecological principles that unify all life Part Two is the survey of protists and animals emphasizing evolutionary and ecological relationships aspects of animal organization that unite major animal phyla and animal adaptations Part Three covers animal form and function using a comparative approach This approach includes descriptions and full color artwork that depict evolutionary changes in the structure and function of selected organ systems **Biology**, 1998 *Science in Your World: Teacher edition* Jay K. Hackett, 1991 **High Risk Pregnancy E-Book** David K. James, Philip J. Steer, Carl P. Weiner, Bernard Gonik, 2010-12-03 High Risk Pregnancy examines the full range of challenges in general obstetrics medical complications of pregnancy prenatal diagnosis fetal disease and management of labor and delivery Drs David James Philip J Steer Carl P Weiner Bernard Gonik Caroline Crowther and Stephen Robson present an evidence based approach to the available management options equipping you with the most appropriate strategy for each patient This comprehensive reference features the fully searchable text online at www.expertconsult.com as well as more than 100 videos of imaging and monitoring giving you easy access to the resources you need to manage high risk pregnancies Prepare for clinical challenges and save time in addressing them thanks to expert advice on treatment options from international contributors Find and apply the information you need quickly and easily through a consistent organization and at a glance summary boxes that discuss evidence based management options Access the fully searchable text online at www.expertconsult.com along with links to Medline View over 140 videos of detailed fetal imaging and monitoring that aid in diagnoses Tap into recent developments in treatment and management in four new chapters Global Maternal Recurrent Pregnancy Loss Surveillance of the Fetus and its Indications and Training for Obstetric Emergencies Apply new evidence based management options to treat genetic and constitutional factors leading to a high risk pregnancy such as diabetes obesity hypertension and cardiac disease through new and expanded coverage of these

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