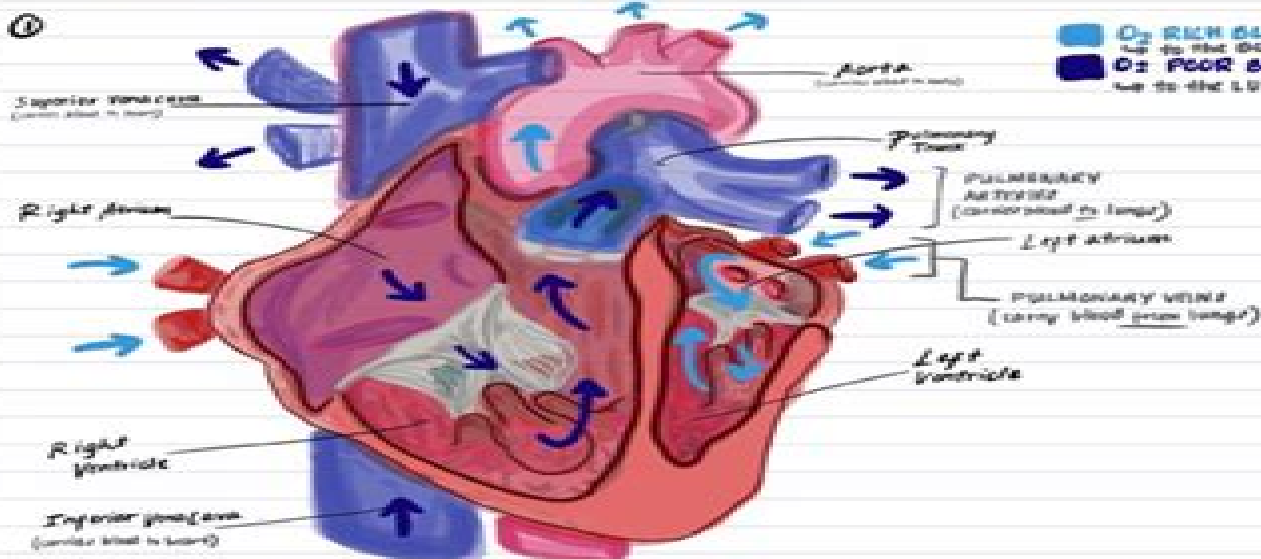


# MODULE 6: CARDIOVASCULAR ANATOMY & PHYSIOLOGY

**O<sub>2</sub> RICH BLOOD**  
→ to the BODY

**O<sub>2</sub> POOR BLOOD**  
→ to the LUNGS



1 IDENTIFY THE FOLLOWING STRUCTURE FROM A FIGURE OF THE HEART:

- LEFT & RIGHT ATRIUM
- LEFT & RIGHT VENTRICLE
- PULMONARY TRUNK
- THE AORTA
- SUPERIOR VENA CAVA

2 NAME THE TWO CIRCUITS OF THE CARDIOVASCULAR SYSTEM  
- how do they differ?

## TYPE OF BLOOD VESSELS

3 TYPES OF BLOOD VESSELS THAT BLOOD TRAVEL THROUGH AFTER LEAVING HEART.

4 AT WHICH TYPE OF BLOOD VESSELS DOES GAS EXCHANGE OCCUR?

5 THE CARDIOVASCULAR SYSTEM DELIVERS OXYGEN-RICH BLOOD TO THE TRILLIONS OF CELLS IN YOUR BODY. HOW DO THE CARDIAC CELLS OF YOUR HEART GET THE OXYGEN THEY NEED TO STAY ALIVE?

6 Pathway of blood (starting from largest artery)  
**AORTA & VENA CAVA**

7 what is CELLULAR RESPIRATION and what is it for?

## 1 PULMONARY CIRCUIT

- moves blood FROM the ♡ to the LUNGS BACK to the ♡

## 2 SYSTEMATIC CIRCUIT

- moves blood FROM the ♡ to ALL body parts and BACK to the ♡.

## 3 ARTERIES

> carry blood AWAY from the ♡

4 Cardiac cells, like all other cells in the body, require oxygen to survive and function properly. The heart itself, however, does not extract oxygen from the blood that it pumps. Instead, the **coronary arteries**, which are small blood vessels that wrap around the outside of the heart, supply the heart muscle (myocardium) with the oxygen-rich blood it needs to function.

- o The circulatory system (cardiovascular system) pumps blood from the heart to the lungs to get oxygen.
- o Then, the heart sends oxygenated blood to the rest of the body (cardiac cells).

- **AORTA** - largest artery
- **VENA CAVA** - largest vein

## PATHWAYS:

**AORTA → ARTERIES → ARTERIOLES → CAPILLARIES → VENULES → VEINS → SUPERIOR & INFERIOR VENA CAVA**

5 THE PROCESS THROUGH WHICH CELLS BREAK DOWN ORGANIC MOLECULES, TYPICALLY GLUCOSE, TO PRODUCE ENERGY IN THE FORM OF PHOSPHORIC ANHYDRATE (ATP), essential for the basic functions of cells, and overall, the organism.  
> stages: glycolysis, citric acid cycle (KREBS CYCLE), and oxidative phosphorylation (electron transport chain).

**SUMMARY:** Identifying the parts of the human heart and understanding the pathways and circuits involved necessary to its functions: transportation, gas exchange, nutrient delivery, waste removal, regulation. The importance of cellular respiration that ensures all cells to receive the necessary oxygen & nutrients, and that waste products are also removed.

# Biology Power Notes Answers

**Didier Musso**



## **Biology Power Notes Answers:**

**Building Content Literacy** Roberta L. Sejnost, Sharon M. Thiese, 2010-02-26 Secondary teachers will find that this superb resource informs the teaching and learning of their students and provides many research based strategies to enhance reading comprehension and written language in every area Johnneen Griffin Director of Secondary Pupil Services Olentangy Local Schools Lewis Center OH Sejnost and Thiese address the national literacy crisis with a practical guidebook that meets the needs of adolescent learners by focusing on the literacy skills needed for the 21st century The strategies engage learners and create independence in content area reading Rusti Russow Director of Teaching and Learning Kankakee School District IL Increase adolescent learners success in all content areas Responding to the challenges associated with teaching middle and high school students this resource offers specific strategies teachers may use to incorporate reading writing and critical thinking throughout content instruction to increase learning With step by step instructions a wealth of examples and numerous student reproducibles the book presents an approach that secondary teachers can implement across all content areas Roberta L Sejnost and Sharon M Thiese focus on research based practices that increase comprehension and learning while meeting standards including Techniques that foster the acquisition and retention of specialized and technical content vocabulary Processes to help students better comprehend narrative and expository texts Approaches to help students use writing and speaking to process their new knowledge and make it their own Techniques for promoting the literacies needed to effectively use various media sources Methods for scaffolding instruction for students with special needs Building Content Literacy is an ideal resource for delivering developmentally appropriate learning experiences and strengthening adolescent s academic achievement in every content area

**The Development and Evaluation of an Introductory Biology Study Guide at the College Level** Carol Hardy McFadden, 1981 Study Guide: Sg Concepts in Biology Eldon D. Enger, Enger, Frederick C. Ross, 2003 **Biology 110 General Biology Study Guide** Douglas G. Fratianne, 1984 AEC Authorizing Legislation, Fiscal Year 1968: Space nuclear systems; raw materials; biology and medicine; isotopes development; special nuclear materials; training, education, and information; program direction and administration; community; Plowshare; security; weapons; and general, February 28, March 2 and 3, 1967 United States. Congress. Joint Committee on Atomic Energy, 1967 **Biology, Study Guide** Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life **Study Guide Plus Sociology** Gwendolyn E. Nyden, 1998-08 The Esoteric, 1890 **Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition** Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things

instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions

**Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis

*The Esoteric* Hiram Erastus Butler,1890 Knowledge... Edwin Sharpe Grew,Baden Fletcher Smyth Baden-Powell,Arthur Cowper Ranyard,Wilfred Mark Webb,1910 **Knowledge & Illustrated Scientific News** ,1912 *Sociology : a Down-to-earth Approach, Second Canadian Edition. Study Guide Plus* Mark Thomas,Gwendolyn E. Nyden,2001 **Study Guide to Accompany Ronald M. Atlas' Microbiology** Harry E. Peery,1984 *Knowledge* ,1911 **The University correspondent and University correspondence college magazine (and The Educational review)**. ,1891 British Medical Journal ,1909 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1929

**The Athenaeum** ,1919

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