Circulatory System Working Model Science Project

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Vital Circuits Greenhaven Publishing LLC
Composed of the heart, blood vessels, and blood, the circulatory system delivers oxygen and nutrients to every tissue in the body. At the center of this incredibly complex system is the heart, a strong muscle that continuously pumps blood throughout the body. Striving to promote a basic understanding of the fundamental physical and biological principles underlying circulatory functions, The Circulatory System, Third Edition describes the anatomical features of the system and examines how it responds to a broad range of challenges, such as increased activity, the microgravity of space, and hemorrhage. Packed with full-color photographs and illustrations, this absorbing book provides students with sufficient background information through references, websites, and a bibliography.
One in a Billion Springer Science & Business Media
Articles previously published in Science scope.
New Inquisitive Science Book 7 Charlesbridge Publishing
Learn about how your heart, blood, and circulatory system work throughout your body.
The Works of William Harvey Phoemixx Classics Ebooks
Examines how the heart and blood vessels work in the body's circulatory system.
Your Circulatory System Franklin Watts
This authoritative work presents the basic knowledge and state-of-the-art techniques necessary to carry out investigations of the cardiovascular system using modeling and simulation. The book provides a survey of relevant cell components and processes, with detailed coverage of the electrical and mechanical behaviors of vascular cells, tissues, and organs. Biological and mechanical glossaries are provided.
STEM Labs for Life Science, Grades 6 - 8 Springer Science & Business Media
Designed for teachers to easily integrate career awareness into their daily lesson plans.
Modeling the Heart and the Circulatory System Greenwood
"A graphic nonfiction volume that introduces the circulatory system of the human body"--
Applied Mathematical Models in Human Physiology Elsevier
Blood in Motion is a textbook in Cardiovascular Science. It sets out to introduce, entice and explain the cardiovascular system to the reader using a classical system in teaching anatomy, physiology, general operation and specific systems. It is specifically designed to support the interests of students, experienced physiologists and clinicians. The book is subdivided into three parts, comprising a total of 11 chapters. Part I presents an historical perspective of cardiovascular knowledge and complements it with current insight into the physiology of the cardiovascular system. Part II explores sections of the circulatory loop, starting with an in-depth treatment of the veins, and including the lymphatic, the microcirculation, the arterial system and the heart. Part III incorporates approaches to the cardiovascular system as a whole, both in physiology and in science, such as modeling. This section introduces impedance-defined flow and offers the reader its application in mathematical modeling. At the end of each chapter, the reader will find questions designed to reinforce the information presented. Each chapter can be read or studied as an independent unit.
i-Science Textbook 4 Raintree
Packed with amazing facts and eye-grabbing images, Your hardworking heart and spectacular circulatory system takes a different approach to teaching the reader about the heart and circulatory system. Every spread opens with an amazing science fact about the human body - for example - Your heart generates a tiny electrical charge each time it beats! - then goes on to explain how scientifically this is possible. By exploring these attention-grabbing sections, readers will build up their understanding of how the heart and circulatory system work. Detailed diagrams and amazing images illustrate the lively, factual text. Your hardworking heart and spectacular circulatory system looks at the structure of the heart and how it works to keep blood flowing around your body. What is blood made of? Is blood always red? How does blood reach your toes and travel back to the heart again?
Your Hardworking Heart and Spectacular Circulatory System Gareth Stevens Publishing LLLP
William Harvey's revolutionary book on the circulatory system, published in Latin in 1628, demonstrated for the first time how the heart pumps blood through the body. His findings overturned the world's basic understanding of the way the body functions and changed fundamental knowledge of physiology as much as any scientific work in history. The Works of William Harvey will provide scientists, students, physicians, and interested lay persons access to the original works of a pioneer who shaped contemporary science. This edition is a reissue of the 1965 facsimile of the 1867 collection and translation of Harvey's works. Included are his groundbreaking 1628 book on the circulatory system, a book on animal reproduction, and various shorter scientific writings and letters, along with a new introduction.
Circulatory System CRC Press
Vortex Formation in the Cardiovascular System will recapitulate the current knowledge about the vortex formation in the cardiovascular system, from mechanics to cardiology. This can facilitate the interaction between basic scientists and clinicians on the topic of the circulatory system. The book begins with a synopsis of the fundamentals aspects of fluid mechanics to give the reader the essential background to address the proceeding chapters. Then the fundamental elements of vortex dynamics will be discussed, explaining the conditions for their formation and the rules governing their dynamics. The main equations are accompanied by mathematical models. Cardiovascular vortex formation is first analyzed in physiological, healthy conditions in the heart chambers and in the large arterial vessels. The analysis is initially presented with an intuitive appeal grounded on the physical phenomena and a focus on its clinical significance.In the proceeding chapters, the knowledge gained from either clinical or basic science literature will be discussed. The corresponding mathematical elements will finally be presented to ensure the adequate diligence. The proceeding chapters ensue to the analysis of pathological conditions, when the reader may have developed the ability to recognize normal from abnormal vortex formation phenomenon. Pathological vortex formation represents vortices that develop at sites where normally laminar flow should exist, e.g. stenosis and aneurisms. This analysis naturally leads to the interaction of vortices due to the surgical procedures with respect to prediction of changes in vortex formation. The existing techniques, from medical imaging to numerical simulations, to explore vortex flows in the cardiovascular systems will also be described. The presentations are accompanied by the mathematical definitions can that be understandable for reader without the advanced mathematical background, while an interested reader with more advanced knowledge in mathematics can be referred to references for further quantitative analyses. The book pursues the objective to transfer the fundamental vortex formation phenomena with application to the cardiovascular system to the reader. This book will be a valuable support for physicians in the evaluation of vortex influence on diagnosis and therapeutic choices. At the same time, the book will provide the rigorous information for research scientists, either from medicine and mechanics, working on the cardiovascular circulation incurring with the physics of vortex dynamics.
Blood in Motion Panpac Education Pte Ltd
This book includes 10 lectures in a light, entertaining style, witheach "lecture" building on the previous one - making it easy forthe reader to comprehend the vastly complicated functions of thecirculatory system. The length of the text has intentionally been kept short; it isneither exhaustively complete nor over-simplified. It is enrichedby details about basic biologic mechanisms and clever ways naturehas solved a problem or achieved a result.
The Circulatory System Capstone Classroom
STEM Labs for Life Science by Mark Twain includes 26 fun, integrated labs that help students understand concepts such as: -life -human body systems -ecosystems This middle school life science book encourages students to collaborate and communicate to solve real-world problems. The STEM Labs for Life Science book for sixth–eighth grades features introductory materials to explain STEM education concepts and provides materials for instruction and assessment. Correlated to meet current state standards, each lab combines the following essential STEM concepts: -communication -creativity -teamwork -critical thinking The Mark Twain Publishing Company provides classroom decorations and supplemental books for middle-grade and upper-grade classrooms. These products are designed by leading educators and cover science, math, behavior management, history, government, language arts, fine arts, and social studies.
Heart: Our Circulatory System Springer
Why does dust collect on the blades of a fan? Why should you wear support hose on a long airplane flight? Vogel ranges across physics, fluid mechanics, and chemistry to show how an enormous system of pumps and pipes works to keep the human body functioning. Anyone curious about the workings of the body will want to read this book. 64 line drawings.
Biology and Mechanics of Blood Flows Biota Publishing
Simple, humorous text and comic illustrations explain the basics of the circulatory system--the systemic, pulmonary, and coronary circuits. Readers follow a red blood cell on its journey through the body, and in the process learn how the body combats disease, performs gas exchanges, and fights plaque.
The Circulatory System Mark Twain Media
Readers go on a journey through the human body with Dr. Seymour Skinless as he goes under the skin to investigate the circulatory system. Adventurous readers learn about how blood is pumped throughout the body, how the heart beats, and other interesting facts about how the human body works. Simplified language throughout makes this complex science curriculum topic easier to understand. A detailed glossary, useful fact boxes, helpful diagrams, fun illustrations, and full-color photographs provide further information about the circulatory system.
Hands-On Science and Technology, Grade 5 John Wiley & Sons
This title teaches readers about the circulatory system. Readers will learn that the heart powers blood flow, what blood does for the body, and the course blood takes through the body. Aligned to Common Core Standards and correlated to state standards. Abdo Kids Jumbo is an imprint of Abdo Kids, a division of ABDO.
The Science of the Heart and Circulatory System Springer Science & Business Media
Models and modelling play a central role in the nature of science, in its conduct, in the accreditation and dissemination of its outcomes, as well as forming a bridge to technology. They therefore have an important place in both the formal and informal science education provision made for people of all ages. This book is a product of five years collaborative work by eighteen researchers from four countries. It addresses four key issues: the roles of models in science and their implications for science education; the place of models in curricula for major science subjects; the ways that models can be presented to, are learned about, and can be produced by, individuals; the implications of all these for research and for science teacher education. The work draws on insights from the history and philosophy of science, cognitive psychology, sociology, linguistics, and classroom research, to establish what may be done and what is done. The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world.
Developing Models in Science Education University of Pennsylvania Press
The New Inquisitive Science is a series of eight books for Classes 1 to 8 that conforms to the vision of the National Curriculum Framework. The series has been written with a child-centric approach that arouses curiosity in children and helps to develop analytical and reasoning skills in them.
Circulation SIAM
This book explains how the body's circulatory and respiratory systems work and shows how they are essential for life. We take a close look at how we breathe and speak, how the heart beats, and how blood works. We will also consider problems that can occur with the heart and lungs and what can be done to keep them healthy.