

The Circulatory System Human Body Systems

The human body is very similar to a machine, with separate mechanisms that work together to keep us healthy. In this book, learn about the different systems, such as the respiratory and the circulatory system, among others, that keep our body functioning normally. Also read little Teri's questions as well the Green Genius's answers about the way the human body works.

As health research and technology continue to advance, more information about the human body is being discovered. Anyone who is pursuing higher education about the human body and how it performs receives advanced information about the human circulatory system. This system is the combination of the body's organs and tissues working together to transport blood, oxygen, and nutrients throughout the body. A pamphlet would benefit a biology or medical student because it would be a tool for learning and studying.

Every human being is different and yet we are made from the same building blocks. Beneath the skin's surface are bones, tissues, muscles and cells that work together to help us live, breathe, move and feel. The Human Body is an accessible introduction to the human body, from the tiny cells to the intricate organ systems. It looks at how everything works together to help us live, breathe, move and feel. You can build your own encyclopedia with Ladybird Books. Other titles available in the series: Animal Habitats Insects and Minibeasts Baby Animals

Trees Sea Creatures Electricity Weather Trains The Solar System

Discusses what the circulatory system is, how it works, and how it responds to exercise and hemorrhage.

Encyclopedia of Human Body Systems

Human Body Systems

Survive! Inside the Human Body, Vol. 3

*Survive! Inside the Human Body, Vol. 2***The Circulatory System****No Starch Press**

What goes on inside the human body? Let's find out the answer together! This educational book features the human anatomy and physiology. It explains in fun details how you breathe, how you think and basically how you live. It's an interesting book to add to your collection. Grab a copy today!

Provides an introduction to the functions of the human body, including vital information on the musculoskeletal system, the nervous system, the circulatory system, and the digestive system.

Discusses the function of the circulatory system, explaining how it works with other body systems and how to keep the circulatory system healthy.

Understanding the Human Body, Grades 5 - 8

Human Body Systems: Circulatory system

Circulatory System Advanced For Humans

(Medical Study Guides)

In this volume, our heroes Geo and Dr. Brain face hostile white blood cells, Phoebe's powerful heartbeat, and a bruise that threatens to suck them out of the bloodstream and leave them stranded forever! As you follow their fast-paced comic adventure through Phoebe's blood, heart, and lungs, you'll learn all about the human circulatory system. Have you ever wondered... -How your heartbeat keeps a steady pace? -Why your blood forms a scab after you get a cut or scrape?

-How your body defends itself against bacteria and other intruders? -How children inherit their blood types from their parents? -How your muscles and brain get the oxygen and nutrients they need to survive? -How the body filters out toxins in food before they reach your bloodstream? For ages 8+ Translated by Army Chung

The circulatory system is made up of the heart, the blood, and strong tubes called blood vessels. But what does the circulatory system do? And how do its parts work together to keep your body healthy? Explore the circulatory system in this engaging and informative book.

How does blood move around inside the human body? Students will learn all about the heart, blood cells, blood vessels, and other important parts of the circulatory system.

Explores the workings of the heart and circulatory system in the human body.

Regulation of Tissue Oxygenation, Second Edition

The Amazing Circulatory System

Human Body Book | Introduction to the Circulatory System | Children's Anatomy & Physiology Edition

Jumpstarters for the Human Body, Grades 4 - 12

Survive! Inside the Human Body, Vol. 3 concludes our incredible tour of the human body with a wild ride through the nervous system. When Geo and Dr. Brain find themselves inside Phoebe's brain, they must brave shocking electrical signals and navigate a maze of neurons and synapses. Will the dynamic duo finally escape? And what's the matter with Phoebe, anyway? As you follow this up-close exploration of Phoebe's brain, you'll learn how the brain and nervous system work. Have you ever wondered... -How your body protects your brain? -Why your leg "falls asleep" when you sit in one position for too long? -How CT scans, MRIs, EEGs, and PET scans work? -Why humans have such big cerebrums compared to other animals? -What your spinal cord and brain stem do? -What kinds of new techniques doctors invent to diagnose and treat their patients? For ages 8+ Translated by Army Chung

Introduces each of the eleven organ systems of the human body, noting the physiological processes, cell and tissue types, and the role each organ plays within the larger system.

Discusses the organs and function of the human circulatory system, the vital functions of blood, and the medical diagnosis and treatment of heart disease and other circulatory disorders.

Connect students in grades 5 and up with science using Understanding the Human Body. This 80-page book presents basic information about the complex human body without overwhelming students with medical jargon. It makes the study of the human body even more fascinating with Far Out Facts, fun tidbits of information that keep students on their toes. The book includes a number of Web sites that provide students the opportunity to further explore various body systems and concepts. This book supports National Science Education Standards.

Your Circulatory System

Survive! Inside the Human Body, Vol. 2

The Everything KIDS' Human Body Book

Happy Heart and the Circulatory System

**An introduction to the nervous system of the human body—one of six volumes in a set titled WORLD BOOK'S HUMAN BODY WORKS. Includes illustrations, glossary, resource list, and index*--Provided by publisher.*

Through engaging text, readers learn about the human body's circulatory system, which consists of the heart, the blood vessels, and the blood that is pumped through them. Readers discover that the circulatory system transports oxygen and nutrients throughout the body, carries away waste products, sends out disease fighters, and regulates the body's temperature. Topics discussed include the lungs, the kidneys, and diseases that affect the circulatory system. A detailed diagram allows readers to follow a drop of blood through the circulatory system. Ways to maintain a healthy circulatory system are also highlighted. Full-color photos, phonetics, glossary, and index enhance the text.

Published in 1628 in the city of Frankfurt, Exercitatio Anatomica de Motu Cordis et Sanguinis in Animalibus contains the matured account of the circulation of the blood. Opening with a dedication to King Charles I, the quarto has 17 chapters which give a perfectly clear and connected account of the action of the heart and the consequent movement of the blood around the body in a circuit.

The Human Body Quick Starts resource book for fourth to ninth grades prepares students for the day's lesson by providing quick starts that focus on vocabulary, identification, and understanding of the human body. This anatomy resource book includes diagrams and features two to four quick starts per page. Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, this product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character.

20 Fun Facts About the Circulatory System

On the Motion of the Heart and Blood in Animals

All You Need to Know About Your Body Systems - From Head to Toe!

Circulatory System

Introduces the basics on the human circulatory system. Includes photographs and sidebars to further explain more complex concepts.

"During breakfast with her dad, Merrin is concerned about his eating habits and his heart. A few moments later, she and Pearl are riding on a red, pillow, donut-shaped boat, floating on a red-colored sea and surrounded by hundreds of these grape-like things! Where are the girls and where are they headed?"—P. [4] of cover.

The human body is a biological machine made of body systems; groups of organs that work together to produce and sustain life. Sometimes we get lost while studying about cells and molecules and can't see the forest for the trees. It can be helpful to step back and look at the bigger anatomical picture. The human body is a complex, highly organized structure made up of unique cells that work together to accomplish the specific functions necessary for sustaining life. The biology of the human body includes Physiology (how the body functions) Anatomy (how the body is structured) Anatomy is organized by levels, from the smallest components of cells to the largest organs and their relationships to other organs. Gross anatomy is the study of the body's organs as seen with the naked eye during visual inspection and when the body is cut open for examination (dissection). Cellular anatomy is the study of cells and their components, which can be observed only with the use of special techniques and special instruments such as microscopes. Molecular anatomy (often called molecular biology) is the study of the smallest components of cells at the biochemical level. The human body is a complex and intricate piece of engineering in which every structure plays a precise role. There are approximately 200 bones, 650 muscles, 79 organs, and enough blood vessels to circle the Earth twice! Anatomy and physiology change remarkably between fertilization and birth. After birth, the rate of anatomic and physiologic changes slows, but childhood is still a time of remarkable growth and development. Some anatomic changes occur past adulthood, but the physiologic changes in the body's cells and organs are what contribute most to what we experience as aging Our bodies consist of a number of biological systems that carry out specific functions necessary for everyday living. The job of the circulatory system is to move blood, nutrients, oxygen, carbon dioxide, and hormones, around the body. It consists of the heart, blood, blood vessels,arteries and veins. The digestive system consists of a series of connected organs that together, allow the body to break down and absorb food, and remove waste. It includes the mouth, esophagus, stomach, small intestine, large intestine, rectum, and anus. The liver and pancreas also play a role in the digestive system because they produce digestive juices. The endocrine system consists of eight major glands that secrete hormones into the blood. These hormones, in turn, travel to different tissues and regulate various bodily functions, such as metabolism, growth and sexual function. The immune system is the body's defense against bacteria, viruses and other pathogens that may be harmful. It includes lymph nodes, the spleen, bone marrow, lymphocytes (including B-cells and T-cells), the thymus and leukocytes, which are white blood cells. The lymphatic system includes lymph nodes, lymph ducts and lymph vessels, and also plays a role in the body's defenses. Its main job is to make is to make and move lymph, a clear fluid that contains white blood cells, which help the body fight infection. The lymphatic system also removes excess lymph fluid from bodily tissues, and returns it to the blood.

The circulatory system doesn't just move blood around the body. It moves nutrients, oxygen, hormones, and electrolytes to exactly where they need to go, from the brain to the feet. Every body system relies on the network of veins, arteries, and capillaries throughout the body. While important, the circulatory system is also incredible interesting! Readers learn the basics of blood cells and blood vessels in fun, surprising, and even gross facts on each page. Diagrams and full-color photographs aid readers' understanding and provide a close encounter with parts of the body they may never see.

A Heart Pumping Adventure

Jumpstarters for the Human Body, Grades 4 - 8

Human Body Quick Starts, Grades 4 - 9

Survive! Inside the Human Body 2

Your body is a busy place. There's always something happening. From digestion to respiration, discover how the systems in your body work together to keep you strong. This title supports NGSS From Molecules to Organisms: Structures and Processes.

Connect students in grades 4 and up with science using Jumpstarters for the Human Body: Short Daily Warm-Ups for the Classroom! This 48-page resource covers body organization and the skeletal, muscular, circulatory, digestive, respiratory, excretory, nervous, and endocrine systems. It includes five warm-ups per reproducible page, answer keys, and suggestions for use.

The adventure continues in Survive! Inside the Human Body, Volume 2 with an amazing journey through the circulatory system. In this volume, our heroes Geo and Dr. Brain face hostile white blood cells, Phoebe's powerful heartbeat, and a bruise that th

Describes the components of the circulatory system, how the heart functions to pump blood through the human body, and cardiovascular diseases and disorders.

The Circulatory Story

The Nervous System

How Does My Heart Work?

Circulatory System, The

The human circulatory system is essential for pumping blood throughout a person's body. Without it, humans wouldn't be able to live. This guide explores the main elements of the circulatory system, introduces key parts such as blood vessels and the heart, and examines problems with this system. Complete with fact boxes and intriguing sidebars, accessible language, discussion questions, and descriptive photographs and diagrams, this introduction will appeal to readers of all levels.

Describes the circulatory system of the human body, including how blood flows from the heart to the rest fo the body, why the system is vital to body function, and how to keep it healthy with diet and exercise.

Humorous text paired with comic illustrations, brings anatomy and science of the body to life for young readers in this exploration of the circulatory system. From the author and illustrator of THE QUEST TO DIGEST comes another playful way to learn about the body and its inner workings. Readers follow a red blood cell on its journey through the heart, lungs, veins, arteries, capillaries, and more, as they see how the body combats disease, performs gas exchanges, and fights plaque. This whimsical glimpse into the human body is fun and informative, perfect for the classroom or the home, and is sure to please the most curious of readers.

Describes the various parts of the human circulatory system and explains how and why blood is circulated throughout the body.

Inside the Human Body: The circulatory system

The Human Body

Science in our Environment

Amazing Facts About The Human Body

"Discusses the parts that make up the human circulatory system, what can go wrong, how to treat those illnesses and diseases, and how to stay healthy"--Provided by publisher.

This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO2 on the cell surface falls to a critical level of about 4-5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO2 . In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

A Ladybird Book: The Human Body

The Circulatory System

An Imaginative Journey Through the Circulatory System

Human Body