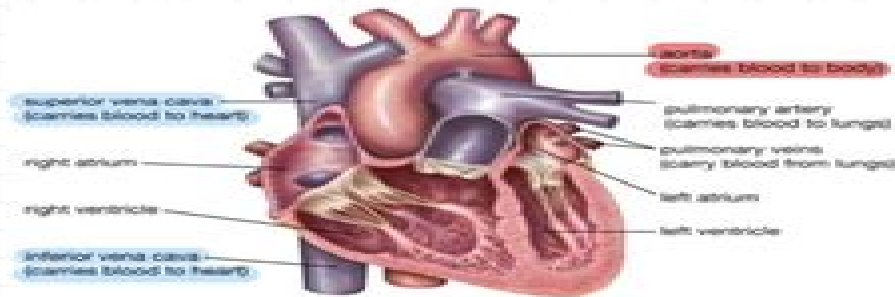


T H E C I R C U L A T O R Y S Y S T E M



Parts of the Heart

- **Superior & Inferior Vena Cava**: Major veins of the body that return deoxygenated blood to the right atrium.
- **Right Atria**: Receiving chamber at the top of the heart receiving deoxygenated blood from the body.
- **Left Atria**: Receiving chamber at the top of the heart receiving oxygenated blood from the body.
- **Ventricles**: Thick muscular chambers of the heart located below each atria.
 - **Right**: Pumps blood to the lungs
 - **Left**: Pumps blood to the body
- **Pulmonary Artery**: The major artery carrying deoxygenated blood from the right ventricle to the lungs.
- **Pulmonary Vein**: The major vein carrying oxygenated blood from the lungs to the left ventricle.
- **Aorta**: The major artery carrying oxygenated blood from the left ventricle to the body.
- **Septum**: The muscular wall that separates the left and right sides of the heart.

Functions

- Delivers needed materials to cells
- Removes waste from cells
- Regulates body temperature
- Fights infections

Components

- Heart
- Blood Vessels: arteries, capillaries, veins

Blood Vessels

- **Artery**: Brings blood away from the heart.
 - Thickest
 - Withstands the most pressure
- **Vein**: Brings blood toward the heart
 - Has valves to prevent blood from backing up.
- **Capillary**: Connect arteries to veins and allow gas exchange.
 - Thinnest
 - Lets materials pass through

Components of the Blood

Component	Function	Where is it made
Plasma	Liquid part	Water
Platelet	Stop bleeding	Bone marrow
Red Blood Cells	Carry Oxygen	Bone marrow
White Blood Cells	Protection	Bone marrow

Modern Biology Study Guide The Circulatory System

David Baud



Modern Biology Study Guide The Circulatory System:

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1. Understanding the eBook Modern Biology Study Guide The Circulatory System
 - The Rise of Digital Reading Modern Biology Study Guide The Circulatory System
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Study Guide The Circulatory System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Biology Study Guide The Circulatory System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Study Guide The Circulatory System
 - Personalized Recommendations
 - Modern Biology Study Guide The Circulatory System User Reviews and Ratings

- Modern Biology Study Guide The Circulatory System and Bestseller Lists
- 5. Accessing Modern Biology Study Guide The Circulatory System Free and Paid eBooks
 - Modern Biology Study Guide The Circulatory System Public Domain eBooks
 - Modern Biology Study Guide The Circulatory System eBook Subscription Services
 - Modern Biology Study Guide The Circulatory System Budget-Friendly Options
- 6. Navigating Modern Biology Study Guide The Circulatory System eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Study Guide The Circulatory System Compatibility with Devices
 - Modern Biology Study Guide The Circulatory System Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Study Guide The Circulatory System
 - Highlighting and Note-Taking Modern Biology Study Guide The Circulatory System
 - Interactive Elements Modern Biology Study Guide The Circulatory System
- 8. Staying Engaged with Modern Biology Study Guide The Circulatory System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Study Guide The Circulatory System
- 9. Balancing eBooks and Physical Books Modern Biology Study Guide The Circulatory System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Study Guide The Circulatory System
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modern Biology Study Guide The Circulatory System
 - Setting Reading Goals Modern Biology Study Guide The Circulatory System
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modern Biology Study Guide The Circulatory System
 - Fact-Checking eBook Content of Modern Biology Study Guide The Circulatory System
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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