

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY



Anatomy

The study of structure and organization of the human body.

Physiology

The study of how the human body works and functions.

Structural Basis

Building blocks of the body, the cells are the basic units of structure and function.

- **Prokaryotes** - single-celled organisms
- **Eukaryotes** - multi-celled organisms
- **Cells** - basic unit of structure and function
- **Organ** - group of tissues that work together
- **Organ System** - group of organs that work together
- **Homeostasis** - ability to maintain balance

CELLS & TISSUES



- **Cell** - basic unit of structure and function
- **Prokaryotic Cell** - cell that lacks a nucleus and membrane-bound organelles
- **Eukaryotic Cell** - cell that has a nucleus and membrane-bound organelles
- **Cell Membrane** - controls what enters and leaves the cell
- **Cell Wall** - protective layer around the cell
- **Cell Nucleus** - contains genetic material
- **Endoplasmic Reticulum** - involved in protein synthesis
- **Golgi Apparatus** - involved in protein modification and transport
- **lysosomes** - involved in breaking down waste products
- **Mitochondria** - powerhouses of the cell, involved in energy production
- **Chloroplasts** - involved in photosynthesis

- **Epithelial Tissue** - covers body surfaces and lines body cavities
- **Connective Tissue** - supports and connects other tissues
- **Muscular Tissue** - involved in movement
- **Nervous Tissue** - involved in communication and control

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NERVOUS SYSTEM



- **Central Nervous System** - brain and spinal cord
- **Peripheral Nervous System** - nerves that connect the CNS to the rest of the body
- **Neuron** - nerve cell that carries information
- **Synapse** - junction where a neuron releases chemicals to another neuron
- **Neurotransmitter** - chemical released at a synapse
- **Reflex** - automatic response to a stimulus

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ENDOCRINE SYSTEM

- **Hormones** - chemical messengers that regulate body functions
- **Endocrine Glands** - glands that release hormones into the blood
- **Exocrine Glands** - glands that release hormones through ducts

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RESPIRATORY SYSTEM

- **Respiratory System** - involved in breathing and gas exchange
- **Alveoli** - tiny air sacs in the lungs
- **Diaphragm** - muscle that separates the chest cavity from the abdominal cavity
- **Trachea** - tube that carries air to the lungs

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GUIDE



URINARY SYSTEM

- **Urinary System** - involved in waste removal and water balance
- **Kidneys** - filter blood and produce urine
- **Ureters** - tubes that carry urine from the kidneys to the bladder
- **Bladder** - storage organ for urine
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Table of Contents 45 Guide Answers

1. Understanding the eBook 45 Guide Answers
 - The Rise of Digital Reading 45 Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 45 Guide Answers
 - 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 45 Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 45 Guide Answers
 - Personalized Recommendations
 - 45 Guide Answers User Reviews and Ratings
 - 45 Guide Answers and Bestseller Lists
5. Accessing 45 Guide Answers Free and Paid eBooks
 - 45 Guide Answers Public Domain eBooks

- 45 Guide Answers eBook Subscription Services
- 45 Guide Answers Budget-Friendly Options

6. Navigating 45 Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
- 45 Guide Answers Compatibility with Devices
- 45 Guide Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 45 Guide Answers
- Highlighting and Note-Taking 45 Guide Answers
- Interactive Elements 45 Guide Answers

8. Staying Engaged with 45 Guide Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 45 Guide Answers

9. Balancing eBooks and Physical Books 45 Guide Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 45 Guide Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 45 Guide Answers

- Setting Reading Goals 45 Guide Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 45 Guide Answers

- Fact-Checking eBook Content of 45 Guide Answers
- 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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