

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its parts.

Physiology

The study of the function of the human body and its parts.

Structural levels

Studying the human body at the cellular, tissue, organ, and system levels.

- 1. **Cellular level** - study of the structure and function of cells.
- 2. **Tissue level** - study of the structure and function of tissues.
- 3. **Organ level** - study of the structure and function of organs.
- 4. **System level** - study of the structure and function of systems.
- 5. **Whole body level** - study of the structure and function of the whole body.

CELLS AND TISSUES

Cells are the basic units of structure and function of the human body.



Organization of human body

The human body is organized into a hierarchy of structural levels.

1. **Chemical level** - study of the structure and function of chemical molecules.

2. **Cellular level** - study of the structure and function of cells.

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4. **Organ level** - study of the structure and function of organs.

5. **System level** - study of the structure and function of systems.

6. **Whole body level** - study of the structure and function of the whole body.



The **axoplasm** is the cytoplasm of the axon, which is the part of the neuron that carries the nerve impulse.

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ORGANS

Organs are structures made up of different types of tissues working together.

1. **Heart** - pumps blood throughout the body.

2. **Lungs** - exchange gases between the body and the environment.

3. **Stomach** - digests food and absorbs nutrients.

4. **Intestines** - absorb nutrients and eliminate waste.

5. **Kidneys** - filter blood and remove waste.

6. **Liver** - produces bile and stores energy.

7. **Spleen** - filters blood and stores red blood cells.

8. **Thyroid** - produces thyroid hormone.

9. **Adrenal glands** - produce adrenaline and cortisol.

10. **Pituitary gland** - produces growth hormone and other hormones.



Organ systems

Organ systems are groups of organs that work together to perform a specific function.

1. **Cardiovascular system** - pumps blood throughout the body.

2. **Respiratory system** - exchanges gases between the body and the environment.

3. **Digestive system** - digests food and absorbs nutrients.

4. **Excretory system** - removes waste from the body.

5. **Reproductive system** - produces offspring.

6. **Immune system** - defends the body against disease.

7. **Endocrine system** - produces and releases hormones.

8. **Nervous system** - controls the body's actions.

9. **Musculoskeletal system** - supports and moves the body.

10. **Integumentary system** - covers the body and protects it from the environment.

SYSTEMS

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NERVOUS SYSTEM

Neurons

Neurons are the basic units of the nervous system.

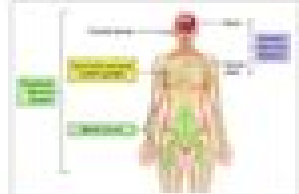
1. **Cell body** - contains the nucleus and other organelles.

2. **Dendrites** - receive signals from other neurons.

3. **Axon** - carries signals away from the cell body.

4. **Myelin sheath** - insulates the axon and speeds up signal transmission.

5. **Synapse** - the point where two neurons meet and communicate.



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NERVE IMPULSES

Nerve impulses are electrical signals that travel along the axon of a neuron.



Types of neurons

There are three main types of neurons:

1. **Sensory neurons** - carry signals from the body to the brain.

2. **Motor neurons** - carry signals from the brain to the body.

3. **Interneurons** - connect sensory and motor neurons.



ORGAN SYSTEMS OF THE BODY

The human body is made up of many different organ systems.

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INTERNAL SYSTEMS

Internal systems are groups of organs that work together to perform a specific function.

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Table of Contents Anatomy Study Guide Games For Students

1. Understanding the eBook Anatomy Study Guide Games For Students
 - The Rise of Digital Reading Anatomy Study Guide Games For Students
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy Study Guide Games For Students
 - 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 Anatomy Study Guide Games For Students
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy Study Guide Games For Students
 - Personalized Recommendations
 - Anatomy Study Guide Games For Students User Reviews and Ratings
 - Anatomy Study Guide Games For Students and Bestseller Lists

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