

# ANATOMY & PHYSIOLOGY

## DIGITAL DOWNLOADS STUDY GUIDE



### HUMAN ANATOMY AND PHYSIOLOGY

Body structure and function of the human body



**Objectives**

- 1. Identify the major systems of the human body.
- 2. Describe the structure and function of the major systems.
- 3. Explain the relationship between structure and function.

**Structure and Function**

Understanding the structure and function of the human body is essential for understanding the underlying mechanisms of health and disease.

- Structure:** The physical form and organization of the body.
- Function:** The processes and actions that the body performs.

**Key Concepts**

- Homeostasis:** The body's ability to maintain a stable internal environment.
- Cellular Structure:** The basic unit of life, the cell, and its components.
- Organ Systems:** Groups of organs that work together to perform a specific function.
- Feedback Loops:** Mechanisms that regulate and control physiological processes.

### CELLS AND TISSUES

The basic unit of life and the building blocks of the human body



**Objectives**

- 1. Describe the structure and function of a cell.
- 2. Explain the relationship between structure and function.
- 3. Identify the major organelles of a cell.

**Structure and Function**

Cells are the basic units of life, and their structure and function are essential for understanding the underlying mechanisms of health and disease.

- Cell Structure:** The physical form and organization of a cell.
- Cellular Processes:** The chemical and physical reactions that occur within a cell.

**Key Concepts**

- Cellular Homeostasis:** The cell's ability to maintain a stable internal environment.
- Cellular Differentiation:** The process by which cells become specialized for different functions.
- Cellular Communication:** The way cells interact with each other and their environment.

### THE NERVOUS SYSTEM

The body's communication system



**Objectives**

- 1. Describe the structure and function of the nervous system.
- 2. Explain the relationship between structure and function.
- 3. Identify the major components of the nervous system.

**Structure and Function**

The nervous system is the body's communication system, and its structure and function are essential for understanding the underlying mechanisms of health and disease.

- Central Nervous System (CNS):** The brain and spinal cord.
- Peripheral Nervous System (PNS):** The nerves that connect the CNS to the rest of the body.

**Key Concepts**

- Neurotransmission:** The process by which nerve impulses are transmitted across synapses.
- Neuroplasticity:** The brain's ability to reorganize itself and form new neural connections.

### MUSCLES AND MOVEMENT

The body's ability to move and respond to its environment



**Objectives**

- 1. Describe the structure and function of a muscle.
- 2. Explain the relationship between structure and function.
- 3. Identify the major components of a muscle.

**Structure and Function**

Muscles are the body's ability to move and respond to its environment, and their structure and function are essential for understanding the underlying mechanisms of health and disease.

- Muscle Structure:** The physical form and organization of a muscle.
- Muscle Contraction:** The process by which a muscle generates force.

**Key Concepts**

- Muscle Fiber:** The basic unit of a muscle, and its components.
- Muscle Fiber Sliding Theory:** The mechanism by which muscle fibers contract.

### THE NERVOUS SYSTEM

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# Mindset Learn Study Notes

**H Kauffman**



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