

ANATOMY & PHYSIOLOGY

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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 organs of the human body.
- 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 Mechanisms:** Processes that regulate and control the body's functions.

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 the building blocks of the human body. They are specialized to perform specific functions.

Key Concepts

- Cellular Structure:** The physical form and organization of a cell.
- Cellular Function:** The processes and actions that a cell performs.
- Cellular Communication:** The way cells interact with each other.
- Cellular Differentiation:** The process by which cells become specialized.

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, allowing it to coordinate and control its actions.

Key Concepts

- Neurons:** The basic units of the nervous system.
- Brain:** The central processing unit of the nervous system.
- Spinal Cord:** The main pathway for information between the brain and the rest of the body.
- Peripheral Nerves:** Nerves that carry information between the brain and the rest of the body.

MUSCLES AND MOVEMENT

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



Objectives

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

Structure and Function

Muscles are responsible for movement and maintaining posture. They contract to generate force.

Key Concepts

- Muscle Structure:** The physical form and organization of a muscle.
- Muscle Function:** The processes and actions that a muscle performs.
- Muscle Contraction:** The process by which a muscle generates force.
- Muscle Adaptation:** The way muscles change in response to exercise.

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Kathleen Armour



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