

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Body Plan: Bilateral symmetry, Cephalization, Coelom, Segmentation, Metamerism

Primary:
The human body is a complex of many parts.

Physiology:
The study of the functions of the parts of the human body.

Structural basis:
The study of the structure of the parts of the human body.

- **Cell:** The basic unit of life.
- **Tissue:** A group of cells that work together to perform a specific function.
- **Organ:** A group of tissues that work together to perform a specific function.
- **System:** A group of organs that work together to perform a specific function.

CELL AND TISSUE

Cell: The basic unit of life. It is a small, self-contained unit that can perform all the functions of life.

Prokaryotic cell: A cell that does not have a nucleus. It is found in bacteria and archaea.

Eukaryotic cell: A cell that has a nucleus. It is found in plants, animals, and fungi.

Plant cell: A cell that has a cell wall and a large central vacuole. It is found in plants.

Animal cell: A cell that does not have a cell wall or a large central vacuole. It is found in animals.

NERVOUS SYSTEM

Brain: The central control center of the nervous system. It is located in the head and is protected by the skull.

Spinal cord: A long, thin, tube-like structure that runs down the back of the body. It is protected by the vertebral column.

Neuron: The basic unit of the nervous system. It is a specialized cell that can transmit electrical signals.

Synapse: A junction between two neurons where they can pass on electrical signals.

MUSCULOSKELETAL SYSTEM

Muscle: A specialized tissue that can contract and relax. It is used to move the body.

Bone: A hard, rigid structure that provides support and protection for the body.

Joint: A point where two bones meet. It allows for movement.

Ligament: A band of fibrous tissue that connects two bones together.

Tendon: A band of fibrous tissue that connects a muscle to a bone.

NERVOUS SYSTEM

Central Nervous System (CNS): The brain and spinal cord.

Peripheral Nervous System (PNS): The rest of the nervous system, including the nerves.

Neuron: The basic unit of the nervous system. It is a specialized cell that can transmit electrical signals.

Synapse: A junction between two neurons where they can pass on electrical signals.

CELLS OF ANIMAL

Epithelial cells: Cells that line the surfaces of organs and tissues. They are used for protection and secretion.

Muscle cells: Cells that are specialized for contraction. They are used to move the body.

Nerve cells: Cells that are specialized for transmitting electrical signals. They are used to control the body.

Red blood cells: Cells that carry oxygen from the lungs to the rest of the body.

White blood cells: Cells that fight off infection and disease.

CELLS OF THE BODY

Epithelial cells: Cells that line the surfaces of organs and tissues. They are used for protection and secretion.

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INTERNAL SYSTEM

Respiratory system: The system of organs that take in oxygen and give off carbon dioxide.

Digestive system: The system of organs that break down food into nutrients that the body can use.

Circulatory system: The system of organs that transport blood throughout the body.

Excretory system: The system of organs that remove waste from the body.

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Andrew Case



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