

# ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

## Visual learner Notes

**Introduction to Anatomy and Physiology**

**Definition:** The study of the structure and function of the human body.

**Branches:**

- Anatomy:** The study of the structure of the body.
- Physiology:** The study of the function of the body.

**Levels of Organization:**

1. Chemical level
2. Cellular level
3. Tissue level
4. Organ level
5. Organ system level
6. Organism level

**Homeostasis**

**Definition:** The process by which the body maintains a stable internal environment.

**Components:**

- Stimulus:** A change in the environment that triggers a response.
- Receptor:** A sensor that detects the stimulus.
- Control Center:** The brain or other part of the body that processes the information from the receptor.
- Effector:** A muscle or gland that carries out the response.

**Cell Structure**

**Cell:** The basic unit of life.

**Parts of a Cell:**

- Cell Membrane:** The outer boundary of the cell.
- Nucleus:** The control center of the cell.
- Mitochondria:** The powerhouses of the cell.
- Ribosomes:** The sites of protein synthesis.

**Integumentary System**

**Definition:** The system of the body that covers and protects the internal organs.

**Components:**

- Skin:** The largest organ of the body.
- Hair:** Filaments of keratin that grow from the skin.
- Nails:** Hard, dead tissue that grows from the skin.

**Muscular System**

**Definition:** The system of the body that provides movement.

**Components:**

- Muscles:** Tissues that contract to produce movement.
- Connective Tissues:** Tissues that hold the muscles together.

**Cardiovascular System**

**Definition:** The system of the body that transports blood.

**Components:**

- Heart:** The pump that circulates blood.
- Blood Vessels:** Tubes that carry blood to and from the cells.

**Respiratory System**

**Definition:** The system of the body that takes in oxygen and removes carbon dioxide.

**Components:**

- Lungs:** The organs that exchange gases.
- Trachea:** The windpipe that carries air to the lungs.

**Digestive System**

**Definition:** The system of the body that breaks down food into nutrients.

**Components:**

- Mouth:** The starting point of digestion.
- Stomach:** The organ that churns food.
- Intestines:** The organs that absorb nutrients.

**Endocrine System**

**Definition:** The system of the body that uses hormones to regulate the body.

**Components:**

- Hypothalamus:** The brain's control center for the endocrine system.
- Pituitary Gland:** The master gland that controls the other glands.
- Thyroid Gland:** The gland that produces thyroid hormone.

**Immune System**

**Definition:** The system of the body that defends against disease.

**Components:**

- White Blood Cells:** Cells that fight infection.
- Antibodies:** Proteins that mark invaders for destruction.



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**Reproductive System**

**Male Reproductive System:**

- Testes:** The glands that produce sperm.
- Vas Deferens:** The tube that carries sperm from the testes.
- Uterus:** The organ that carries the developing fetus.

**Reproductive System**

**Female Reproductive System:**

- Ovaries:** The glands that produce eggs.
- Uterus:** The organ that carries the developing fetus.
- Vagina:** The canal that leads from the uterus to the outside of the body.

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