

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

Introduction to Anatomy and Physiology

Structure	Function
Cell	Basic unit of life
Organ	Group of tissues
System	Group of organs
Organism	Whole body

Levels of Organization

Chemical	Atomic	Molecular
Cell	Tissue	Organ
System	Organism	Population

Homeostasis

Stimulus	Receptor	Control Center	Effector	Response
Change in environment	Senses change	Processes information	Carries out response	Restores balance

Feedback Loops

Positive	Negative
Amplifies response	Reduces response
Example: Blood clotting	Example: Blood sugar regulation

Cell Structure

Prokaryotic	Eukaryotic
No nucleus	Has nucleus
Simple structure	Complex structure

Cellular Processes

Diffusion	Osmosis	Active Transport
Passive	Passive	Active
Down gradient	Down gradient	Against gradient

Energy and Metabolism

ATP	Glucose	Lipids
Energy currency	Primary fuel	Long-term storage
Cellular respiration	Glycolysis	Fatty acid oxidation

Genetics

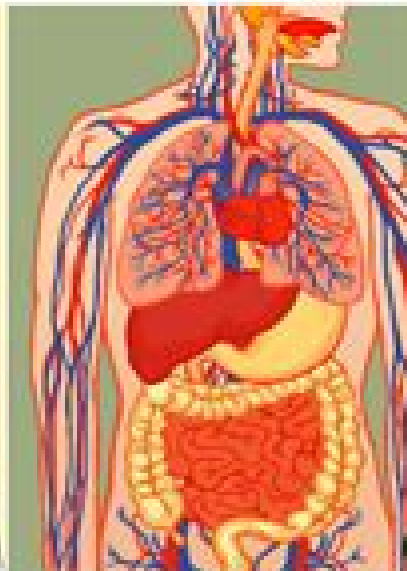
DNA	Chromosomes	Genes
Double helix	Linear structures	Units of heredity
Replication	Segregation	Expression

Integumentary System

Skin	Hair	Nails
Barrier	Protection	Defense
Thermoregulation	Sensation	Excretion

Musculoskeletal System

Bones	Muscles	Joints
Support	Movement	Flexibility
Calcium storage	Energy storage	Shock absorption



Cardiovascular System

Heart	Blood Vessels	Blood
Pump	Transport	Medium
Oxygenation	Delivery	Removal

Respiratory System

Lungs	Trachea	Diaphragm
Gas exchange	Conduction	Pressure change
Oxygen intake	Carbon dioxide removal	Acid-base balance

Digestive System

Mouth	Stomach	Intestines
Ingestion	Chemical digestion	Mechanical digestion
Enzymes	Acid	Peristalsis

Excretory System

Kidneys	Ureters	Bladder
Filtering	Transport	Storage
Waste removal	Fluid balance	Electrolyte balance

Endocrine System

Hypothalamus	Pituitary	Thyroid
Regulation	Control	Metabolism
Stress response	Growth	Reproduction

Immune System

White Blood Cells	Antibodies	Macrophages
Defense	Attack	Engulfment
Inflammation	Healing	Memory

Nervous System

Brain	Spinal Cord	Nerves
Control	Conduction	Communication
Thought	Reflexes	Sensation

Reproductive System

Ovaries	Uterus	Vagina
Oogenesis	Pregnancy	Delivery
Fertilization	Gestation	Birth

Sensory System

Eyes	Ears	Nose
Vision	Hearing	Smell
Light detection	Sound detection	Chemical detection

Integumentary System (Continued)

Sunburn	Wound healing	Skin cancer
UV damage	Cell repair	Genetic factors
Prevention	Treatment	Research

Anatomy And Pysiology Packet

Michael Hoelscher



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