

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

System	Structure	Function
Integumentary	Skin	Protects the body from external damage and infection.
	Hair	Helps regulate body temperature.
	Nails	Protects the tips of fingers and toes.
	Sweat glands	Helps regulate body temperature.
Skeletal	Bones	Support the body and protect internal organs.
	Joints	Allow movement of the body.
	Ligaments	Connect bones to bones.
	Tendons	Connect muscles to bones.

System	Structure	Function
Muscular	Myofibrils	Contract to produce movement.
	Sarcomeres	Basic unit of contraction.
	Actin	Thick filaments that contract.
	Myosin	Thin filaments that contract.
Cardiovascular	Heart	Pumps blood throughout the body.
	Arteries	Carry oxygenated blood away from the heart.
	Venues	Carry deoxygenated blood back to the heart.
	Capillaries	Exchange oxygen and nutrients with tissues.

System	Structure	Function
Respiratory	Lungs	Exchange oxygen and carbon dioxide.
	Trachea	Carry air into and out of the lungs.
	Diaphragm	Contracts to draw air into the lungs.
	Alveoli	Site of gas exchange.
Digestive	Mouth	Chewing and initial digestion.
	Stomach	Breaks down food into smaller pieces.
	Small intestine	Absorbs nutrients from food.
	Large intestine	Eliminates waste from the body.

System	Structure	Function
Excretory	Kidneys	Filter waste from the blood.
	Ureters	Carry urine from the kidneys to the bladder.
	Bladder	Stores urine until it is ready to be eliminated.
	Urethra	Eliminates urine from the body.
Reproductive	Ovaries	Produce eggs and hormones.
	Uterus	Where the fetus develops.
	Vagina	Passage for childbirth.
	Penis	Delivers sperm into the female.

System	Structure	Function
Endocrine	Hypothalamus	Controls the body's internal clock.
	Pituitary gland	Controls the growth and development of the body.
	Thyroid gland	Produces hormones that regulate metabolism.
	Adrenal glands	Produce hormones that help the body respond to stress.

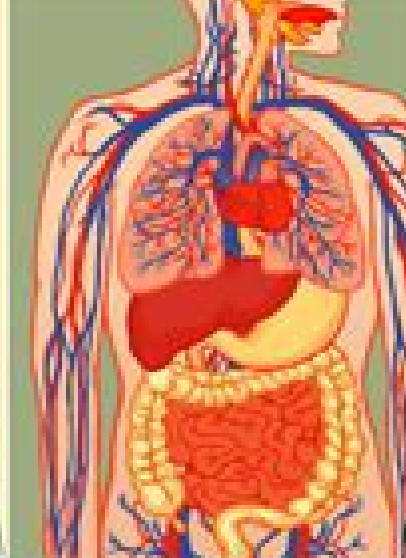
System	Structure	Function
Immune	White blood cells	Fight off infection.
	Antibodies	Attack and destroy pathogens.
	Macrophages	Engulf and destroy pathogens.
	Neutrophils	Kill bacteria and other pathogens.

System	Structure	Function
Nervous	Brain	Controls the body's actions.
	Spinal cord	Transmits signals between the brain and the rest of the body.
	Nerves	Carry signals between the brain and the rest of the body.
	Receptors	Detect changes in the environment.

System	Structure	Function
Sensory	Eyes	See the world around us.
	Ears	Hear sounds and maintain balance.
	Nose	Smell odors.
	Tongue	Taste food.

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ANATOMY AND PHYSIOLOGY	
Introduction: Anatomy is the study of the structure of the body, and physiology is the study of the function of the body.	
Levels of structure: The levels of structure are the chemical level, the cellular level, the tissue level, the organ level, the system level, and the organism level.	
Homeostasis: Homeostasis is the process by which the body maintains a stable internal environment.	
Feedback loops: Feedback loops are the processes by which the body maintains homeostasis.	
Regulation: Regulation is the process by which the body controls its functions.	
Integration: Integration is the process by which the body coordinates its functions.	

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Anatomy Study Guide Module 1

Lingsheng Yao



Anatomy Study Guide Module 1:

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