

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

System	Structure	Function
Integumentary	Skin	Protects the body from external damage and regulates body temperature.
	Hair	Protects the skin and helps regulate body temperature.
	Nails	Protects the fingers and toes.
	Sweat glands	Regulate body temperature by releasing sweat.
Skeletal	Bones	Support the body and protect internal organs.
	Joints	Allow movement between bones.
	Ligaments	Connect bones to bones.
	Tendons	Connect muscles to bones.

System	Structure	Function
Muscular	Myofibrils	Contract to produce movement.
	Sarcomeres	Basic unit of muscle contraction.
	Actin	Thick filament protein.
	Myosin	Thin filament protein.
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.
	Rib cage	Protects the lungs and heart.
Digestive	Mouth	Chews food and begins 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 a fetus develops during pregnancy.
	Vagina	Passage for childbirth.
	Penis	Delivers sperm into the female.

System	Structure	Function
Endocrine	Hypothalamus	Controls the body's internal clock and hormone levels.
	Pituitary gland	Releases hormones that control other glands.
	Thyroid gland	Regulates metabolism.
	Adrenal glands	Produce hormones that affect blood pressure and stress response.

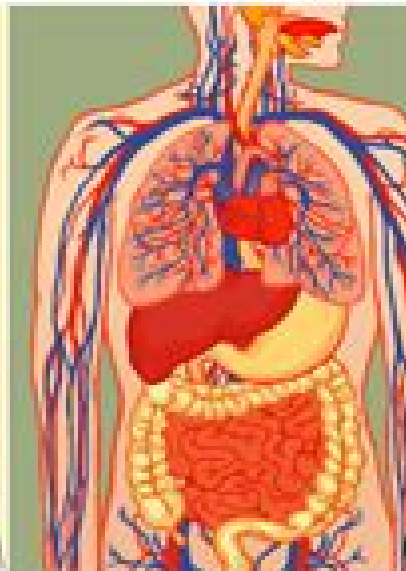
System	Structure	Function
Immune	White blood cells	Fight off infection.
	Antibodies	Attack foreign invaders.
	Macrophages	Engulf and destroy pathogens.
	T-cells	Regulate the immune response.

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

System	Structure	Function
Sensory	Eyes	See light and color.
	Ears	Hear sound and maintain balance.
	Nose	Smell odors.
	Tongue	Taste flavors.

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Anatomy is the study of the structure of the body and its parts. Physiology is the study of the function of the body and its parts.	
LEVEL OF STRUCTURAL ORGANIZATION OF THE BODY	CELL
How biological systems are organized from the smallest to the largest level.	CELL
THE BASIC UNIT OF LIFE	CELL
The most complex biological system is the human body. It is made up of many different parts, each with its own function.	CELL
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Anatomy Study Guide Module 1

**Susan Mundry, Page Keeley, Carolyn
Landel**



Anatomy Study Guide Module 1:

Anatomy Study Guide Module 1 Book Review: Unveiling the Power of Words

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