

Human Anatomy and Physiology Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
3	Introduction <ul style="list-style-type: none"> ● Levels of organization ● Terminology 	Identify the levels of structural organization in the body Describe anatomical position, body regions, directions, planes Identify major body cavities	Why is it important to have knowledge of human body orientation?
4	Tissues <ul style="list-style-type: none"> ● Epithelial, connective, muscular, nervous, skeletal, blood 	Describe the form and function of various body system tissues.	How can you predict the purpose of various tissues by understanding form and function?
5	Integumentary System <ul style="list-style-type: none"> ● Composition of integument (hair, nails, epidermis, dermis) ● Layers of epidermis and composition of each layer 	Name the layers of epidermis and composition of the dermis Identify and describe the accessory structures of the integument Describe the function of the integumentary system	How does the integumentary system protect us?
10	Skeletal System <ul style="list-style-type: none"> ● Bones and related tissue 	Analyze the structure and function of the human skeleton	How do bones provide the ability for movement? How does the skeleton

			support your body?
15	Muscular System <ul style="list-style-type: none"> Skeletal, cardiac, smooth tissue 	<p>Compare and contrast functions and locations of muscles in the body.</p> <p>Classify the muscles of the body by their functions.</p> <p>Compare and contrast human musculature to the cat in the dissection laboratory</p>	<p>How are muscle tissues similar?</p> <p>How do muscle tissues function in the body?</p>
10	Nervous System <ul style="list-style-type: none"> Central and peripheral neurons 	Describe the structure and function of the peripheral and central nervous systems.	How do neurons control the human body?
10	Circulatory System <ul style="list-style-type: none"> Blood, heart, arteries, veins, capillaries 	Describe the form and function of cardiovascular components of the body.	<p>How does blood keep us alive?</p> <p>How does the heart and arteries, veins, and capillaries function as a closed circulatory system?</p>
5	Respiratory System <ul style="list-style-type: none"> Lung structure and function 	Describe the function of the lungs.	How does the respiratory system exchange oxygen and carbon dioxide?
4	Urinary System <ul style="list-style-type: none"> Kidneys and related tissue 	Identify and explain functions of kidneys and related structures.	How do kidneys function as filters?
6	Digestive System	Identify the parts of the digestive	How does your body break

	<ul style="list-style-type: none">● Organs and digestive process	system Describe digestive function both mechanical and chemical	down food so it can enter the circulatory system?
5	Reproductive System	Describe male and female reproductive anatomy	How do hormones influence reproduction?