

Options EHS Anatomy & Physiology B		Scope and Sequence
Unit	Lesson	Objectives
Anatomy of the Body		
Exploring Health Science Careers		<p>Describe the major career fields in health and medical sciences</p> <p>Analyze and compare health science careers within the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems</p> <p>Identify health careers related to each body system</p> <p>Identify career requirements for health science careers</p>
Studying Health Science		<p>Explain the types of information a health science worker studies</p> <p>Describe effective methods of studying health science content</p> <p>Analyze the best method of study and recall for different types of health science content</p>
Basic Medical Terminology		<p>Use anatomical terminology to describe the parts and areas of the body</p> <p>Use anatomical terminology to describe the relationships between parts of the body</p>
Basic Medical Prefixes, Suffixes, and Root Words		<p>Identify common roots, prefixes, and suffixes used in health science fields, including common anatomical structures</p> <p>Analyze how common roots, prefixes, and suffixes are combined to form medical terms</p>
Basic Medical Abbreviations		<p>Explain why medical terminology is often abbreviated in the healthcare industry</p> <p>Identify common abbreviations for diseases and disorders</p> <p>Identify common pharmacy abbreviations</p>

Unit Lesson**Objectives**

Identify common patient status abbreviations

The Anatomical Position and Surface Anatomy

Define and explain the purpose of the anatomical position

Identify the areas of the body indicated on the anatomical position

Explain surface anatomy

Identify superficial landmarks on the body and analyze their purpose

Planes of the Body

Describe anatomical planes on the body and explain their use when studying anatomy

Identify types of planes of the body

Use the proper terminology to identify the planes of the body

Directions of the Body

Identify the terms used to refer to directions of the body

Distinguish between the terms used to refer to direction of the body

Use directional terms to refer to directions of the body

Axial Regions of the Body

Explain the rationale for having regional terms for the human body

Define the regional terms used to refer to the parts of the axial regions of the body

Identify axial regions of the body using proper regional terminology

Appendicular Regions of the Body

Explain the rationale for having regional terms for the human body

Define the regional terms used to refer to the parts of the appendicular regions of the body

Identify appendicular regions of the body using proper regional terminology

Options EHS Anatomy & Physiology B		Scope and Sequence
Unit	Lesson	Objectives
	Summary	
	Unit Test	
Musculoskeletal System		
	The Skeletal System	
		Analyze the functions of the skeletal system
		Identify the major organs of the skeletal system
		Describe the components of the skeletal system, including connective tissues
	Bones	
		Describe the four functions of bones
		Analyze the structure and anatomy of bones
		Explain the composition and properties of bones
		Explain how bones form and grow
	Bones of the Axial Skeleton	
		Identify the axial region of the body
		Identify the bones of the axial skeleton
		Analyze the structural purpose of the bones of the axial skeleton
	Bones of the Appendicular Skeleton	
		Identify the appendicular regions of the body
		Identify the bones of the appendicular skeleton
		Analyze the structural purpose of the bones of the appendicular skeleton
	Joints	
		Describe the types of joints that connect the human skeleton

Options EHS Anatomy & Physiology B		Scope and Sequence
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		Analyze the types of motion possible in various types of joints
		Identify the locations of the joints on the human body
	The Muscular System	
		Explain the functions of the muscular system
		Analyze the structure and function of muscles in the muscular system
		Identify the different muscles of the muscular system
		Identify the types of connective tissue in the muscular system
		Explain the function of connective tissue in the muscular system
	Skeletal, Cardiac, and Smooth Muscles	
		Describe the anatomy of muscles
		Differentiate between the three types of muscle
		Analyze the function of the three types of muscle
		Explain muscle growth and atrophy
	Articulations and Body Movement	
		Define articulations
		Analyze the way connective tissue attaches muscle to bone and cartilage in the body
		Explain how the musculoskeletal system allows the human body to move
	Common Diseases and Disorders of the Musculoskeletal System	
		Identify common diseases and disorders of the musculoskeletal system
		Analyze the symptoms and treatments of common diseases and disorders of the musculoskeletal system
		Explain methods of preventing common diseases and disorders of the musculoskeletal system
	Musculoskeletal System Career	

Unit Lesson**Objectives**

Specialties

Analyze a variety of health science careers that specialize in musculoskeletal systems

Explain the career pathways for musculoskeletal careers

Identify specialized trainings and certifications necessary for specialists in musculoskeletal systems

Summary

Unit Test

Nervous and Sensory Systems

The Nervous System

Define neurons and glial cells

Analyze the structure and functions of the central nervous system

Analyze the structure and functions of the peripheral nervous system

Explain how the peripheral and central nervous systems function together

Nerves

Define nerves and explain their basic structure

Explain the difference between spinal nerves and cranial nerves

Analyze the function of the sensory nerves

Analyze the function of the motor nerves

The Brain and Spinal Cord

Identify the primary parts of the brain

Describe the left and right hemispheres of the cerebral cortex

Explain the importance of the skull

Analyze the structure and function of the spinal cord

Unit Lesson**Objectives**

Common Diseases and Disorders of the Nervous System

Identify common neurological diseases and disorders

Analyze the symptoms and treatments of common neurological diseases and disorders.

Explain methods of preventing common neurological diseases and disorders.

Nervous System Career Specialties

Analyze a variety of health science careers that specialize in the nervous system

Explain the career pathways for neurology careers

Identify specialized trainings and certifications necessary for neurology specialists

The Sensory System

Analyze the functions of the sensory system in relation to the nervous system

Define stimulus

Identify the five human senses

Identify the human sensory receptors

Common Diseases and Disorders of the Sensory System

Identify common diseases and disorders of the sensory system

Analyze the symptoms and treatments of common diseases and disorders of the sensory system

Explain methods of preventing common diseases and disorders of the sensory system

Sensory System Career Specialties

Analyze a variety of health science careers that specialize in the sensory system

Explain the career pathways for careers related to the sensory system

Identify specialized trainings and certifications necessary for specialists in sensory systems

Unit Lesson**Objectives**

Summary

Unit Test

Cardiovascular System

The Cardiovascular System

Analyze the structure of the cardiovascular system and its components, including the heart, blood, and blood vessels

Analyze the functions of the cardiovascular system

Explain the important role the respiratory system plays in the cardiovascular system

The Heart

Analyze the structures of the human heart

Analyze the function of the human heart

Describe the role of the heart in circulation

Blood

Identify the components of blood

Analyze the functions of blood

Analyze the structure and function of blood vessels

Explain how blood circulates through the human body

Blood Pressure

Define blood pressure and explain its importance to the cardiovascular system

Differentiate between systolic and diastolic pressure

Describe high blood pressure and analyze its causes

Describe low blood pressure and analyze its causes

Disorders of the Blood

Options EHS Anatomy & Physiology B		Scope and Sequence
Unit	Lesson	Objectives
		Define blood disorder
		Identify common blood disorders
		Analyze symptoms and treatments for some blood disorders
	Myocardial Infarction	
		Define myocardial infarction
		Describe the common causes of myocardial infarctions
		Analyze common symptoms and treatments for myocardial infarctions
	Common Diseases and Disorders of the Cardiovascular System	
		Identify common diseases and disorders of the cardiovascular system
		Analyze the symptoms, causes, and treatments of common diseases and disorders of the cardiovascular system
		Explain methods of preventing common diseases and disorders of the cardiovascular system
	Cardiovascular System Career Specialties	
		Analyze a variety of health science careers that specialize in the cardiovascular system
		Explain the career pathways for careers related to the cardiovascular system
		Identify specialized trainings and certifications necessary for careers in the cardiovascular system
	Summary	
	Unit Test	
	Respiratory System	
	The Respiratory System	
		Analyze the structure and functions of the respiratory system
		Define and describe ventilation

Options EHS Anatomy & Physiology B		Scope and Sequence
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		Describe the functions of the lungs and capillaries in introducing oxygen into the human body
		Explain the relationship between the respiratory system and the circulatory system
	Anatomy of the Upper Respiratory System	Analyze the structure of the upper respiratory system
		Analyze the functions of the upper respiratory system
		Explain the upper respiratory system's role in respiration
	Anatomy of the Lower Respiratory System	Analyze the structure of the lower respiratory system
		Explain the role of the lungs' lobes
		Analyze the functions of the lower respiratory system
	Circulation and Respiration	Define pulmonary, systemic, and coronary circulation
		Analyze the function and pathway of each type of circuit, and how they impact respiration
	Gas Exchange	Describe how oxygen is transported from the lungs to the blood
		Define hemoglobin
		Identify two ways oxygen is carried in the blood
		Analyze the carbon dioxide transport pathway
	Common Diseases and Disorders of the Respiratory System	Identify common diseases and disorders of the respiratory system
		Analyze the symptoms and treatments of common diseases and disorders of the respiratory system

Unit Lesson**Objectives**

Explain methods of preventing common diseases and disorders of the respiratory system

Respiratory System Career Specialties

Analyze a variety of health science careers that specialize in the respiratory system

Explain the career pathways for careers related to the respiratory system

Identify specialized trainings and certifications necessary for specialists in respiratory health

Summary

Unit Test

Cumulative Exam

Cumulative Exam Review

Cumulative Exam