

The background of the page features a large, pixelated, grayscale version of the Seal of the Commonwealth of Massachusetts. The seal depicts a Native American figure holding a bow and arrow, with a five-pointed star above his right shoulder. The text is centered over the seal.

**Curriculum Map
Physiology Honors
Saugus High School
Saugus, MA 01906**

Week 1	
Performance Standards	
Unit/Topic./Lesson	
Introduction to Human Anatomy and Physiology Maintenance of Life Organization of the Human Body	
Objectives (Students Will...)	Essential Question
<p>Discuss anatomy and physiology and explain how they are related</p> <p>List the major organ system and name the organs associated with each.</p> <p>Describe the parts of the homeostatic mechanism and explain how they function together</p>	What are the body cavities that house major organs?
	Labs/Demonstrations/Activities
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 1 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
Review Summer Assignment Test: Summer Assignment	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster

Week 2	
Performance Standards	
<p>Biology 2.1: Relate organelles (plasma membrane, nuclear envelope, nucleus, nucleolus, cytoplasm, mitochondrion, endoplasmic reticulum, Golgi apparatus, lysosome, ribosome, vacuole, cell wall, chloroplast, cytoskeleton, centrioles, cilium, flagellum, pseudopods) to their functions. Explain the role of cell membranes as a highly selective barrier (diffusion, osmosis, facilitated diffusion, active transport).</p> <p>Biology 2.4: Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. Explain the interrelated nature of photosynthesis and cellular respiration in the cells of photosynthetic organisms.</p> <p>Biology 2.5: Explain the important role that ATP serves in metabolism.</p>	
Unit/Topic./Lesson	
Review of the Cell. Composite Cell The Cell Cycle Cellular Metabolism Metabolic Reactions (Control of, Energy for) Metabolic pathways DNA Protein Synthesis	
Objectives (Students Will...)	Essential Question
<p>Explain how the structure of the cell membrane makes possible its function.</p> <p>Describe the steps of protein synthesis.</p> <p>Distinguish between a stem cell and a progenitor cell.</p> <p>Explain the role that ATP serves in metabolism.</p>	Why must cells divide and specialize?
	Labs/Demonstrations/Activities
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 3 & 4 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quiz - Cells	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster

Week 3	
<i>Performance Standards</i>	
Unit/Topic./Lesson	
Tissues Epithelial Tissues Connective Tissue	
<p>Objectives (Students Will...)</p> <p>List the four major tissue types and tell where each is located in the body.</p> <p>Give the general characteristics and functions of Epithelial Tissue and Connective Tissue.</p> <p>Identify an organ where each subtype is found.</p> <p>Explain how glands are classified.</p>	<p style="text-align: center;">Essential Question</p> <p>What is tissue and where are the four types found?</p> <hr/> <p style="text-align: center;">Labs/Demonstrations/Handouts</p> <p>Lab: Histology of 4 tissues.</p>
<p style="text-align: center;">Teacher Resources</p> <ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 5 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<p style="text-align: center;">Media Resources</p> <ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
<p style="text-align: center;">Assessment Activities</p> <p>HW - Study guide questions Lab Report Quiz - Tissue types</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster</p>

Week 4	
<i>Performance Standards</i>	
Unit/Topic./Lesson	
Tissues Types of Membranes Muscle Tissues Nervous Tissue	
<p>Objectives (Students Will...)</p> <p>Distinguish among the three types of muscle tissue.</p> <p>Name the four types of membrane and tell how they differ.</p> <p>Describe the general characteristics and function of nervous tissues.</p>	<p style="text-align: center;">Essential Question</p> <p>What are the four types of muscle tissue?</p> <hr/> <p style="text-align: center;">Labs/Demonstrations/Handouts</p> <p>Lab: Muscle tissue histology</p>
<p style="text-align: center;">Teacher Resources</p> <ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 5 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<p style="text-align: center;">Media Resources</p> <ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
<p style="text-align: center;">Assessment Activities</p> <p>HW - Study guide questions Lab Report Test: Tissues</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster</p>

Week 5	
Performance Standards	
<p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p> <p>Biology 4.8: Recognize that the body's systems interact to maintain homeostasis. Describe the basic function of a physiological feedback loop.</p>	
Unit/Topic./Lesson	
Tissue Repair Neoplasm Benign Neoplasm Malignant Neoplasm	
Objectives (Students Will...)	Essential Question
<p>Describe the process of tissue repair.</p> <p>Define neoplasm, and distinguish between benign and malignant neoplasm.</p>	Why are malignant neoplasms dangerous to cells?
	Labs/Demonstrations/Handouts
	<p>Lab: Using the Light microscope</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 5 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Research project on Cancer Lab Report Quiz - Cancer	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster</p>

Week 6	
Performance Standards	
<p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p> <p>Biology 4.8: Recognize that the body's systems interact to maintain homeostasis. Describe the basic function of a physiological feedback loop.</p>	
Unit/Topic./Lesson	
Integumentary System Skin and Tissue Accessory Structures of the Skin Regulation of Body Temperature Healing of Wounds	
Objectives (Students Will...)	Essential Question
<p>List several important functions of the Integumentary System and explain how these functions are accomplished.</p> <p>When given a diagram, recognize and the various skin structures.</p> <p>Name the layers of the epidermis and give the function of each.</p> <p>Explain how the skin helps to regulate body temperature.</p>	What are the functions of the integumentary system?
	Labs/Demonstrations/Handouts
	<p>Lab: Perform physical activities related to the sensitivity and placement of nerve endings on the skin.</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 6 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster</p>

Week 7	
Performance Standards	
<p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p> <p>Biology 4.8: Recognize that the body's systems interact to maintain homeostasis. Describe the basic function of a physiological feedback loop.</p>	
Unit/Topic./Lesson	
Integumentary System Skin and Tissue Accessory Structures of the Skin Regulation of Body Temperature Healing of Wounds	
Objectives (Students Will...) <p>Describe the function of the sebaceous glands, sweat glands and hair.</p> <p>Name the factors that determine skin color and describe the function of melanin.</p> <p>Describe the anatomy & physiology of the accessory organs of the skin</p> <p>Discuss the carcinomas and melanomas that can affect the skin.</p>	Essential Question How are the accessory organs of the skin important in the body's homeostasis? Labs/Demonstrations/Handouts Lab: Sketch various skin slides
Teacher Resources <ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 6 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	Media Resources <ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities HW - Study guide questions Lab Report Test: Integumentary System	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 8	
Performance Standards	
<p>Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.</p>	
Unit/Topic./Lesson	
Skeletal System Bone Structure Bone Development and Growth Bone Function	
Objectives (Students Will...) <p>List the active tissue in bone.</p> <p>Describe the macroscopic and microscopic structure in long bone, and list the function of these parts.</p> <p>Discuss the major function of bone.</p> <p>Distinguish between intramembranous and endochondral bones, and explain how such bones develop and grow.</p>	Essential Question What is the function of the skeletal system? Labs/Demonstrations/Handouts Lab: Disarticulated cat skeleton—comparative anatomy
Teacher Resources <ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 7 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	Media Resources <ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities HW - Study guide questions Lab Report Quizzes on section of the chapter	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 9	
Performance Standards	
<p>Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.</p>	
Unit/Topic./Lesson	
Skeletal System Bone Function Skeletal Organization Skull	
Objectives (Students Will...)	Essential Question
<p>Distinguish between the axial and appendicular skeletons, and name the major parts of each.</p> <p>Locate and identify the bones and the major features of the bones that compose the skull.</p> <p>Locate and identify the facial bones.</p> <p>Identify the sinuses and their functions.</p> <p>List the types of bone fractures and the steps to repair fractures.</p>	<p>What are the common types of fractures and explain each?</p>
	Labs/Demonstrations/Handouts
	<p>Lab: Identify the skull and facial bones with use of skeleton head model</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 7 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	Completed by:
	Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 10	
Performance Standards	
<p>Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.</p>	
Unit/Topic./Lesson	
Cellular Energy Cellular Respiration	
Objectives (Students Will...)	Essential Question
<p>Locate and identify the bones and the major features of the bones that make-up the vertebral column, thoracic cage, pectoral girdle, upper limb, pelvic girdle, and lower limb.</p>	<p>What are the bones of the adult axial and appendicular skeleton?</p>
	Labs/Demonstrations/Handouts
	<p>Lab: Full size drawing of skeleton with all major bones labeled</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 7 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Test: Skeletal System	Completed by:
	Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 11	
Performance Standards	
Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.	
Unit/Topic./Lesson	
Muscular System Structure of Skeletal Muscle Skeletal muscle Contraction Muscular Responses	
Objectives (Students Will...) Describe similarities and differences in the structure and function of the three types of muscle tissue and indicate where they are found in the body. Discuss nervous stimulation of a skeletal muscle. Identify the major events of a skeletal muscle fiber contraction. Identify the composition of skeletal muscle fiber.	Essential Question Why do skeletal muscle fibers appear striated? Labs/Demonstrations/Handouts Lab: Perform physical activities related to muscle movements
Teacher Resources <ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 8 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	Media Resources <ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities HW - Study guide questions Lab Report Quizzes on section of the chapter	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 12	
Performance Standards	
Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.	
Unit/Topic./Lesson	
Muscular System Smooth Muscle Cardiac Muscle Skeletal Muscle Actions Major Skeletal Muscles	
Objectives (Students Will...) Describe the events of muscle cell contraction. Discuss three ways in which ATP is regenerated during muscle cell activity. Define oxygen debt and muscle fatigue and list their possible causes. Describe the effects of aerobic and resistance exercise on the muscular system and other body organs.	Essential Question What are the major of events of muscle contraction and relaxation? Labs/Demonstrations/Handouts
Teacher Resources <ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 8 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	Media Resources <ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities HW - Study guide questions Essay on the benefits of exercise	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 13	
Performance Standards	
<p>Biology 4.5: Explain how the muscular/skeletal system (skeletal, smooth and cardiac muscles, bones, cartilage, ligaments, tendons) works with other systems to support the body and allow for movement. Recognize that bones produce blood cells.</p>	
Unit/Topic./Lesson	
Muscular System Skeletal Muscle Actions Major Skeletal Muscles	
Objectives (Students Will...) <p>Define origin and insertion.</p> <p>List some criteria used in naming muscles.</p> <p>Name and locate the major muscles of the human body.</p> <p>Physically demonstrate all the various types of muscle movement.</p> <p>Demonstrate the muscles of facial expression.</p> <p>Discuss the inherited conditions that affect muscles, the genetic defect and the particular muscles affected.</p>	Essential Question What are the major inherited diseases of muscles?
Labs/Demonstrations/Handouts	
Lab: Muscle types	
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 8 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quiz - Cranial and facial muscles Test: Muscular System	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 14	
Performance Standards	
<p>Biology 4.4: Explain how the nervous system (brain, spinal cord, sensory neurons, motor neurons) mediates communication among different parts of the body and mediates the body’s interactions with the environment. Identify the basic unit of the nervous system, the neuron, and explain generally how it works.</p> <p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p>	
Unit/Topic./Lesson	
Nervous System General Function of the Nervous System Neuroglial Cells Neurons	
Objectives (Students Will...) <p>Distinguish between the two types of cell that comprise nervous tissue.</p> <p>List the general functions of the nervous system.</p> <p>Explain the structural and functional classifications of the nervous system.</p> <p>Define central nervous system and peripheral nervous system, and list the major parts of each.</p> <p>Define the general function of a neuron.</p> <p>Explain how the differences of structure and function are used to classify neurons.</p>	Essential Question What are the events leading to the conduction of a nerve impulse?
Labs/Demonstrations/Handouts	
Lab: Perform physical activities related to reflexes.	
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 9 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 15

Performance Standards

Biology 4.4: **Explain** how the nervous system (brain, spinal cord, sensory neurons, motor neurons) mediates communication among different parts of the body and mediates the body's interactions with the environment. **Identify** the basic unit of the nervous system, the neuron, and **Explain** generally how it works.

Biology 4.7: **Recognize** that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.

Unit/Topic./Lesson

Nervous System	Nerve Pathway
Synapse	Meninges
Cell Membrane Potential	Spinal Cord
Synaptic Transmission	Brain
Impulse Processing	Peripheral Nervous System
Types of Nerves	Autonomic Nervous System

Objectives (Students Will...)

Describe the events of an electrical impulse.

List the functions of the spinal cord.

Explain the function of the sympathetic and parasympathetic divisions of the nervous system.

Know the type and functions of the cranial nerves.

List several factors that may be harmful on brain development.

Define senility, and also **Explain** declines in brain size and weight that occur with age.

Essential Question

How are spinal nerves grouped?

Labs/Demonstrations/Handouts

Lab: Sheep brain dissection—comparative anatomy

Teacher Resources

- Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 9
- Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition
- Text Website – aris.mhhe.com
 - Teat Bank
 - Transparencies
 - Student Study Guide

Media Resources

- Power Point Presentations
- Internet labs and resources
- Aris Course Management Website

Assessment Activities

HW - Study guide questions
Lab Report
Test: Nervous System

Completion date:

Completed by:

Comments: *Alternative Evaluation:*
Paper, Project, Poster, Journal

Week 16

Performance Standards

Biology 4.4: **Explain** how the nervous system (brain, spinal cord, sensory neurons, motor neurons) mediates communication among different parts of the body and mediates the body's interactions with the environment. **Identify** the basic unit of the nervous system, the neuron, and **Explain** generally how it works.

Biology 4.7: **Recognize** that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.

Unit/Topic./Lesson

Senses
Receptors, Sensations, and Perception
General Senses
Special Senses
Sense of Taste
Sense of Hearing
Sense of Equilibrium

Objectives (Students Will...)

Distinguish between somatic senses and special senses.

Name five kinds of receptors and **explain** their functions.

Explain how a sensation arises.

Describe the receptors associated with the senses of touch, pressure, temperature and pain.

Explain how one is able to localize the source of the sound.

Describe the location and function of the olfactory and taste receptors

Essential Question

How are sensory receptors categorized in five types?

Labs/Demonstrations/Handouts

Lab: Ear and hearing

Teacher Resources

- Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 10
- Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition
- Text Website – aris.mhhe.com
 - Teat Bank
 - Transparencies
 - Student Study Guide

Media Resources

- Power Point Presentations
- Internet labs and resources
- Aris Course Management Website

Assessment Activities

HW - Study guide questions
Lab Report
Quizzes on section of the chapter

Completion date:

Completed by:

Comments: *Alternative Evaluation:*
Paper, Project, Poster, Journal

Week 17	
Performance Standards	
<p>Biology 4.4: Explain how the nervous system (brain, spinal cord, sensory neurons, motor neurons) mediates communication among different parts of the body and mediates the body's interactions with the environment. Identify the basic unit of the nervous system, the neuron, and Explain generally how it works.</p> <p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p>	
Unit/Topic./Lesson	
Senses Sense of Sight	
<p>Objectives (Students Will...)</p> <p>Explain the function of each part of the eye.</p> <p>Explain how the eye refracts light.</p> <p>Identify the structures of the eye on a diagram.</p> <p>Compare the structure of the sheep eye to the human eye by dissecting.</p>	<p>Essential Question</p> <p>What are the muscles associated with the eyelids and eyes?</p>
	<p>Labs/Demonstrations/Handouts</p> <p>Lab: Eye structure-dissection for comparison.</p>
<p>Teacher Resources</p> <ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 10 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<p>Media Resources</p> <ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
<p>Assessment Activities</p> <p>HW - Study guide questions Lab Report Test: Senses</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 18	
Performance Standards	
<p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p>	
Unit/Topic./Lesson	
Endocrine System General Characteristics of the Endocrine System Hormone Action Control of Hormonal Secretions	
<p>Objectives (Students Will...)</p> <p>Describe how hormones bring about their effects on the body.</p> <p>Explain how various endocrine glands are stimulated to release their hormones.</p> <p>List the general characteristics of the endocrine system.</p> <p>Distinguish between endocrine and exocrine glands.</p>	<p>Essential Question</p> <p>How are various endocrine glands stimulated to release hormones?</p>
	<p>Labs/Demonstrations/Handouts</p> <p>Lab: Visual test and demonstrations</p>
<p>Teacher Resources</p> <ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 11 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<p>Media Resources</p> <ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
<p>Assessment Activities</p> <p>HW - Study guide questions Lab Report Quizzes on section of the chapter</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 19	
Performance Standards	
<p>Biology 4.7: Recognize that communication among cells is required for coordination of body functions. The nerves communicate with electrochemical signals, hormones circulate through the blood, and some cells produce signals to communicate only with nearby cells.</p>	
Unit/Topic./Lesson	
Endocrine System Pituitary Gland Thyroid Gland Parathyroid Gland Adrenal Glands Pancreas Other Endocrine Glands Stress and Health	
Objectives (Students Will...)	Essential Question
<p>Identify the major endocrine glands and tissues on a diagram.</p> <p>List hormones produced by each endocrine gland with its function.</p> <p>Explain how the secretion of each hormone is regulated.</p> <p>Describe the effect of aging on the endocrine system and body homeostasis.</p>	<p>How is the secretion of each hormone regulated?</p>
	Labs/Demonstrations/Handouts
	<p>Labs: Endocrine Histology and Diabetic Physiology</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 11 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Report - The effects of Diabetes on the Body Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 20	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Blood Blood Cells Blood Plasma	
Objectives (Students Will...)	Essential Question
<p>Describe the general characteristic of blood and Discuss its major function.</p> <p>Distinguish among the formed elements and liquid portion of blood.</p> <p>Explain the significance of RBC count.</p> <p>List the five types of WBC and give the functions of each.</p> <p>Identify the lineage of blood cells that descend from hemocytoblasts.</p>	<p>What are the ABO and Rh blood groups?</p>
	Labs/Demonstrations/Handouts
	<p>Lab: Histology of red blood cells and white blood cells</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 12 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 21	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Blood Homeostasis Blood Groups and Transfusions	
Objectives (Students Will...) Explain the ABO blood group. Name the two ways the Rh incompatibility can arise. Discuss coagulation disorders. Discuss how blood clots form	Essential Question What causes the blood to clot/or not clot?
	Labs/Demonstrations/Handouts Lab: On line and/or real-life labs pertaining to blood
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 12 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Test: Blood	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 22	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Cardiovascular System Structures of the Heart Heart Actions	
Objectives (Students Will...) Identify the location and the major anatomical areas of the heart. Trace the pathway of blood through the heart, into the body and back. Explain the operation of heart valves	Essential Question How does blood travel through the heart, into the body and back?
	Labs/Demonstrations/Handouts Lab: Heart structure—dissection
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole’s Essential of Human Anatomy and Physiology Tenth Edition Chapter 13 • Laboratory Manual for Hole’s Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quiz - Heart structure	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 23	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Cardiovascular System Blood Vessels Blood Pressure Paths of Circulation Arterial Systems Venous Systems	
Objectives (Students Will...)	Essential Question
<p>Compare and contrast the structure and function of arteries, veins, and capillaries.</p> <p>Identify the body's major arteries and veins.</p> <p>Define blood pressure and pulse and list factors affecting blood pressure.</p> <p>Describe the exchanges which occur along capillary walls.</p> <p>Explain how exercise and diet affect cardiovascular health.</p>	<p>How does exercise affect the body's pulse rate and blood pressure?</p>
	Labs/Demonstrations/Handouts
	<p>Lab: Pulse rate and blood pressure</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 13 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Write an essay from the point of view of a blood molecule traveling through the cardiovascular system. Test: Cardiovascular System	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 24	
Performance Standards	
Unit/Topic./Lesson	
Lymphatic System and Immunity Lymphatic Pathways Tissue Fluid and Lymph Lymph Movement Lymph Nodes	
Objectives (Students Will...)	Essential Question
<p>Describe the lymphatic system's relationship to the cardiovascular system and the immune system.</p> <p>Describe the functions of the lymph nodes, tonsils, thymus, and spleen.</p> <p>Discuss the inflammatory process.</p>	<p>What are the general functions of the lymphatic system?</p>
	Labs/Demonstrations/Handouts
	<p>Lab: Lymphatic System</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 14 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 25	
<i>Performance Standards</i>	
Unit/Topic./Lesson	
Lymphatic System and Immunity Thymus and Spleen Body Defenses Against Infection Innate (Nonspecific) Defenses Adaptive (Specific) Defenses or Immunity	
Objectives (Students Will...)	Essential Question
Define antigen and haptens State the roles of B cells, T cells and plasma cells. Describe immunodeficiencies, allergies, and autoimmune diseases. Describe the effects of aging on immunity.	What are several ways in which antibodies act against antigens?
	Labs/Demonstrations/Handouts
	Lab: Online and/or real life labs pertaining to the immune system
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 14 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Write an essay discussing how the body fights invaders. Test: Lymphatic System and Immunity	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 26	
Performance Standards	
Biology 4.3: Explain how the respiratory system (nose, pharynx, larynx, trachea, lungs, alveoli) provides exchange of O ₂ and CO ₂	
Unit/Topic./Lesson	
Respiratory System Organs of the Respiratory System Breathing Mechanism	
Objectives (Students Will...)	Essential Question
Name the organs of the respiratory passageway and their functions. Describe protective mechanisms of the respiratory system. Define cellular respiration, internal respiration, external respiration, pulmonary ventilation, expiration, inspiration, tidal volume, residual air, apnea, dyspnea, hyperventilation, hypoventilation, and COPD	What are the protective mechanisms of the respiratory system for the human body?
	Labs/Demonstrations/Handouts
	Lab: Respiration Organs
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 16 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> Teat Bank Transparencies Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 27	
Performance Standards	
Biology 4.3: Explain how the respiratory system (nose, pharynx, larynx, trachea, lungs, alveoli) provides exchange of O ₂ and CO ₂	
Unit/Topic./Lesson	
Respiratory System Control of Breathing Alveolar Gas Exchange Gas Transport	
Objectives (Students Will...)	Essential Question
Describe the process of gas exchanges in lungs and tissue.	How does air and blood exchange gases?
Describe how oxygen and carbon dioxide are transported through the body.	
Name physical factors that affect respiratory rate,	Labs/Demonstrations/Handouts
Describe the symptoms and probable causes of COPD and lung cancer	
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 16 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Test: Respiratory System	Completed by:
	Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 28	
Performance Standards	
Biology 4.1: Explain generally how the digestive system (mouth, pharynx, esophagus, stomach, small and large intestines, rectum) converts macromolecules from food into smaller molecules that can be used by cells for energy and for repair and growth.	
Unit/Topic./Lesson	
Digestive System and Nutrition General Characteristics of the Alimentary Canal Mouth Salivary Glands Pharynx and Esophagus Stomach Pancreas Liver Small Intestine Large Intestine	
Objectives (Students Will...)	Essential Question
Identify the organs of the digestive system.	How are contents of the alimentary canal mixed and moved?
Describe the composition and function of saliva.	
Describe the mechanisms of swallowing, vomiting and defecation.	Labs/Demonstrations/Handouts
Describes how foodstuffs are mixed and moved along the digestive tract.	Lab: Action of a Digestive Enzyme
Teacher Resources	Media Resources
<ul style="list-style-type: none"> Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 15 Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> Power Point Presentations Internet labs and resources Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report	Completed by:
Quizzes on section of the chapter	Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 29	
Performance Standards	
<p>Biology 4.1: Explain generally how the digestive system (mouth, pharynx, esophagus, stomach, small and large intestines, rectum) converts macromolecules from food into smaller molecules that can be used by cells for energy and for repair and growth.</p>	
Unit/Topic./Lesson	
Digestive System and Nutrition Nutrition and Nutrients	
Objectives (Students Will...)	Essential Question
<p>List several common sources of carbohydrates.</p> <p>Discuss why individual carbohydrate requirements may vary.</p> <p>Illustrate how food energy is measured.</p> <p>Discuss the function of cholesterol on the human body.</p> <p>Describe if the requirement for glucose has priority over protein synthesis?</p>	What is the function of cholesterol on the human body?
	Labs/Demonstrations/Handouts
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 15 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Essay - The effects of cholesterol on the human body Test: Digestive system and nutrition	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 30	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Urinary system Kidneys Urine Formation Urine Elimination	
Objectives (Students Will...)	Essential Question
<p>Describe the location and the function of the kidneys.</p> <p>Describe the general structure and function of the ureters, bladder and urethra.</p> <p>Name and localize the three main fluid compartments of the body.</p> <p>Trace the pathway of blood through the major vessels within a kidney.</p> <p>Define the renal plasma threshold</p>	What is the general structure and function of the kidneys?
	Labs/Demonstrations/Handouts
	Lab: Kidney Structure
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 17 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 31	
Performance Standards	
<p>Biology 4.2: Explain how the circulatory system (heart, arteries, veins, capillaries, red blood cells) transports nutrients and oxygen to cells and removes cell wastes. Describe how the kidneys and the liver are closely associated with the circulatory system as they perform the excretory function of removing waste from the blood. Recognize that kidneys remove nitrogenous wastes, and the liver removes many toxic compounds from blood.</p>	
Unit/Topic./Lesson	
Urinary system Kidneys Urine Formation Urine Elimination	
Objectives (Students Will...) <p>Describe the mechanisms by which the body regulates filtration rate.</p> <p>Explain the micturition reflex.</p> <p>Discuss the common urinary tract problems</p>	Essential Question What are the common urinary tract problems? Labs/Demonstrations/Handouts Lab: Urinalysis
Teacher Resources <ul style="list-style-type: none"> - Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 17 - Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition - Text Website – aris.mhhe.com - Teat Bank - Transparencies - Student Study Guide 	Media Resources <ul style="list-style-type: none"> - Power Point Presentations - Internet labs and resources - Aris Course Management Website
Assessment Activities HW - Study guide questions Lab Report Test: Urinary System	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 32	
Performance Standards	
<p>Biology 4.6: Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.</p>	
Unit/Topic./Lesson	
Reproductive Systems Organs of the Male Reproductive System Hormonal Control of Male Reproductive Functions	
Objectives (Students Will...) <p>Identify the major organs of the male reproductive system, and discuss the general function of each.</p> <p>Explain how hormones control the activities of the male reproductive organs and the development of male secondary sex characteristics.</p>	Essential Question What are the functions of the major organs of the male reproductive system? Labs/Demonstrations/Handouts Lab: Male Reproductive System
Teacher Resources <ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 19 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com - Teat Bank - Transparencies - Student Study Guide 	Media Resources <ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities HW - Study guide questions Lab Report Quizzes on section of the chapter	Completion date: Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 33	
Performance Standards	
<p>Biology 4.6: Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.</p>	
Unit/Topic./Lesson	
Reproductive Systems Organs of the Female Reproductive System Hormonal Control of Female Reproductive Functions	
Objectives (Students Will...)	Essential Question
<p>Identify the major organs of the female reproductive system, and discuss the general function of each.</p> <p>Explain how hormones control the activities of the female reproductive organs and the development of male secondary sex characteristics</p>	What are the functions of the major organs of the female reproductive system?
	Labs/Demonstrations/Handouts
	<p>Lab: Female Reproductive System</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> - Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 19 - Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition - Text Website – aris.mhhe.com - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> - Power Point Presentations - Internet labs and resources - Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 34	
Performance Standards	
<p>Biology 4.6: Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.</p>	
Unit/Topic./Lesson	
Reproductive Systems Reproductive Cycles Menarche Menopause Male/female Infertility	
Objectives (Students Will...)	Essential Question
<p>Define meiosis, spermatogenesis, ovulation, oogenesis, fertilization, zygote, menarche and menopause.</p> <p>Define the major events that occur during a reproductive cycle.</p> <p>Explain male/female infertility.</p>	What are the similarities and differences between spermatogenesis and oogenesis?
	Labs/Demonstrations/Handouts
	<p>Lab: Genetics</p>
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 19 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab Report Quizzes on section of the chapter	<p>Completed by:</p> <p>Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal</p>

Week 35	
Performance Standards	
Biology 4.6: Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.	
Unit/Topic./Lesson	
Reproductive Systems Breast Cancer Sexually transmitted Diseases	
Objectives (Students Will...)	Essential Question
Discuss Breast Cancer. Explain the cause, symptoms and treatment of sexually transmitted diseases.	Are sexually transmitted diseases treatable?
	Labs/Demonstrations/Handouts
	Lab: Fetal Pig
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 19 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Case Study - breast cancer of sexually transmitted diseases Test: Reproductive Systems	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal

Week 36	
Performance Standards	
Biology 4.6: Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.	
Unit/Topic./Lesson	
Pregnancy, Growth, Development, and Genetics Pregnancy Prenatal Period	
Objectives (Students Will...)	Essential Question
Describe the process of fertilization resulting in pregnancy. List the major events of both the embryonic and fetal stage of development. Describe the birth process and explain the role of hormones in this process.	What major changes occur during the fetal stage of development?
	Labs/Demonstrations/Handouts
	Lab: Fetal Pig
Teacher Resources	Media Resources
<ul style="list-style-type: none"> • Hole's Essential of Human Anatomy and Physiology Tenth Edition Chapter 20 • Laboratory Manual for Hole's Essential of Human Anatomy and Physiology Tenth Edition • Text Website – aris.mhhe.com <ul style="list-style-type: none"> - Teat Bank - Transparencies - Student Study Guide 	<ul style="list-style-type: none"> • Power Point Presentations • Internet labs and resources • Aris Course Management Website
Assessment Activities	Completion date:
HW - Study guide questions Lab practical Quizzes on section of the chapter	Completed by: Comments: <i>Alternative Evaluation:</i> Paper, Project, Poster, Journal