

Options EHS Life Science		Scope and Sequence
Unit	Lesson	Objectives
Bacteria to Plants		
Bacteria		
		Identify the characteristics of bacterial cells.
		Examine how bacteria reproduce.
		Compare and contrast eubacteria and archaeobacteria.
		Analyze the roles of helpful and harmful bacteria.
Protists		
		Examine the characteristics common to all protists.
		Compare and contrast the characteristics of the three groups of protists.
		Identify examples of the three groups of protists based on their characteristics.
		Examine why it is difficult to classify protists.
Fungi		
		Examine the characteristics common to all fungi.
		Compare and contrast the various groups of fungi.
		Identify the roles of fungi in nature.
Overview of Plants		
		Examine the characteristics common to all plants.
		Identify the things a plant needs to survive on land.
		Compare the characteristics of nonvascular and vascular plants.
Seedless Plants		
		Compare and contrast the characteristics of nonvascular plants and seedless vascular plants.
		Identify examples of nonvascular plants and seedless vascular plants based on their characteristics.

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		Examine the importance of seedless plants.
	Gymnosperms	
		Identify the characteristics of gymnosperms.
		Identify examples of gymnosperms.
		Examine the life cycle of a gymnosperm.
	Angiosperms	
		Identify the characteristics of angiosperms.
		Identify the structure and function of flowers.
		Examine how angiosperms reproduce.
		Differentiate the two types of angiosperms.
	Lab: Flower Dissection	
		Dissect and describe the parts of a flower.
		Relate the parts of a flower to their roles in reproduction.
	Unit Test	
Animals		
	Sponges and Cnidarians	
		Identify the characteristic structures of sponges and cnidarians.
		Examine the basic functions performed by sponges and cnidarians.
		Analyze the role of coral reefs.
	Worms	
		Classify worms into three main groups.
		Identify the characteristics of each group of worms.

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	Mollusks and Echinoderms	Identify the characteristic structures of mollusks and echinoderms. Examine the basic functions performed by mollusks and echinoderms. Distinguish the three major groups of mollusks. Differentiate between the four major groups of echinoderms.
	Arthropods	Identify the characteristic structures of arthropods. Examine the basic functions performed by arthropods. Distinguish the four major groups of arthropods.
	Fish	Identify the characteristic structures of fish. Examine the basic functions performed by fish. Distinguish the three major groups of fish.
	Amphibians and Reptiles	Identify the characteristic structures of amphibians and reptiles. Examine the basic functions performed by amphibians and reptiles. Distinguish the two main groups of amphibians. Differentiate between the three main groups of reptiles.
	Birds and Mammals	Identify the characteristic structures of birds and mammals. Examine the basic functions performed by birds and mammals. Distinguish the three main groups of mammals.

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	Animal Behavior	
		Differentiate between learned and inherited behaviors.
		Relate responses in organisms to internal stimuli.
		Determine ways in which organisms respond to external stimuli.
		Distinguish among the various patterns of behavior exhibited by animals.
	Lab: Earthworm Behavior	
		Observe and measure the physical characteristics of an earthworm.
		Examine how an earthworm responds to different external stimuli.
	Unit Test	
Human Biology		
	Body Organization and Homeostasis	
		Identify and order the levels of organization in the body.
		Analyze how organ systems function together to maintain homeostasis.
	The Musculoskeletal and Integumentary Systems	
		Identify the major structures and functions of the musculoskeletal system.
		Compare and contrast the three types of muscle.
		Describe how bones and muscles work together to allow movement.
		Examine the major structures and functions of the integumentary system.
	The Digestive and Excretory Systems	
		Identify the major structures and functions of the digestive system.
		Examine how food is physically and chemically broken down by the digestive system.
		Identify the major structures and functions of the excretory system.

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		Analyze how the kidneys work.
	The Circulatory and Respiratory Systems	
		Identify the major structures and functions of the circulatory system.
		Analyze the components of blood.
		Examine the major structures and functions of the respiratory system.
		Describe how breathing and gas exchange occur.
	The Immune System	
		Identify the major structures and functions of the immune system.
		Examine how the immune system protects the body from disease.
		Distinguish between passive and active immunity.
	The Nervous and Endocrine Systems	
		Identify the major structures and functions of the nervous system.
		Analyze how sensory receptors communicate with the brain in response to stimuli.
		Examine the major structures and functions of the endocrine system.
		Analyze how negative feedback works in the endocrine system.
	The Reproductive System	
		Identify the structures and functions of the male reproductive system.
		Examine the structures and functions of the female reproductive system.
	Unit Test	
Ecology		
	Living Things and the Environment	
		Differentiate between a habitat and a niche.

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		Examine biotic and abiotic factors in the environment.
		Identify the levels of organization within an ecosystem.
	Populations	
		Identify factors that affect population size.
		Identify limiting factors that affect a population in a given environment.
	Interactions among Living Things	
		Differentiate competition, predation, and cooperation.
		Distinguish among the three types of symbiotic relationships.
	Energy Flow in Ecosystems	
		Explain the roles of producers, consumers, and decomposers in an ecosystem.
		Identify producers, consumers, and decomposers in food chains and food webs.
		Examine the movement of energy through an ecosystem in food chains and food webs.
		Analyze the transfer of energy through the trophic levels in an energy pyramid.
	Lab: Owl Pellets	
		Dissect an owl pellet and examine the contents.
		Identify an owl's prey based on the contents of an owl pellet.
	Cycles of Matter	
		Examine how carbon cycles through an ecosystem.
		Analyze the importance of the nitrogen cycle.
		Identify the processes involved in the water cycle.
	Biomes	
		Characterize Earth's major terrestrial biomes.

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		Identify adaptations that enable organisms to survive in distinct environments.
	Unit Test	
Environmental Changes		
	Succession	
		Compare primary and secondary succession.
		Contrast pioneer species and climax community.
	Lab: Ecological Succession	
		Explore the process of ecological succession in a microhabitat.
		Conduct a controlled experiment to test a hypothesis.
		Recognize sampling methods commonly used in ecology.
	Natural Environmental Change	
		Identify examples of natural short-term environmental changes.
		Identify examples of natural long-term environmental changes.
		Assess the impact of natural environmental changes on organisms, populations, and species.
	Human Impact on the Environment	
		Identify examples of short-term human-induced environmental changes.
		Identify examples of long-term human-induced environmental changes.
		Assess the impact of human-induced environmental changes on organisms, populations, and species.
	Biodiversity	
		Identify how biodiversity contributes to the sustainability of an ecosystem.
		Identify the factors that affect biodiversity.
		Identify some factors that can threaten biodiversity.

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		Examine ways to protect biodiversity.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	