

MarineLab & Georgia State Science Standards

Grades 9 - 12

STRAND/TOPIC	GA.SCSH.	Biology: Co-Requisite - Characteristics of Science												
STANDARD / DESCRIPTION	SCSh1.	Habits of Mind: Students will evaluate the importance of curiosity, honesty, openness, and skepticism in science.												
ELEMENT	SCSh1.b.	Recognize that different explanations often can be given for the same evidence.												
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ELEMENT	SCSh3.b.	Develop procedures for solving scientific problems.												
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ELEMENT	SCSh3.c.	Collect, organize and record appropriate data.												
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ELEMENT	SCSh3.d.	Graphically compare and analyze data points and/or summary statistics.														
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STANDARD / DESCRIPTION	SCSh4.	Habits of Mind: Students use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.														
ELEMENT	SCSh4.a.	Develop and use systematic procedures for recording and organizing information.														
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STANDARD / DESCRIPTION	SCSh6.	Habits of Mind: Students will communicate scientific investigations and information clearly.														
ELEMENT	SCSh6.b.	Write clear, coherent accounts of current scientific issues, including possible alternative interpretations of the data.														
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ELEMENT	SCSh6.c.	Use data as evidence to support scientific arguments and claims in written or oral presentations.														
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ELEMENT	SCSh6.d.	Participate in group discussions of scientific investigation and current scientific issues.														
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STANDARD / DESCRIPTION	SCSh7.	The Nature of Science: Students analyze how scientific knowledge is developed. Students recognize that:														
ELEMENT	SCSh7.a.	The universe is a vast single system in which the basic principles are the same everywhere.														
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STANDARD / DESCRIPTION	SCSh9.	The Nature of Science: Students will enhance reading in all curriculum areas by:														
ELEMENT	SCSh9.c.	Building vocabulary knowledge: Demonstrate an understanding of contextual vocabulary in various subjects; Use content vocabulary in writing and speaking; Explore understanding of new words found in subject area texts.														
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ELEMENT	SCSh9.d.	Establishing context: Explore life experiences related to subject area content; Discuss in both writing and speaking how certain words are subject area related; Determine strategies for finding content and contextual meaning for unknown words.														
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STRAND/TOPIC	GA.SB.	Biology: Co-Requisite - Content														
STANDARD / DESCRIPTION	SB1.	Students will analyze the nature of the relationships between structures and functions in living cells.														
ELEMENT	SB1.d.	Explain the impact of water on life processes (i.e., osmosis, diffusion).														
		Water Quality														
STANDARD / DESCRIPTION	SB2.	Students will analyze how biological traits are passed on to successive generations.														
ELEMENT	SB2.e.	Compare the advantages of sexual reproduction and asexual reproduction in different situations.														
		Cassiopeia Culturing Coral Reef Ecology Mangrove Ecology														
STANDARD / DESCRIPTION	SB3.	Students will derive the relationship between single-celled and multi-celled organisms and the increasing complexity of systems.														
ELEMENT	SB3.a.	Explain the cycling of energy through the processes of photosynthesis and respiration.														
		Seagrass Ecology														

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ELEMENT	SB3.b.	Compare how structures and function vary between the six kingdoms (archaeobacteria, eubacteria, protists, fungi, plants, and animals).
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		Field Identification of Reef Fish Invertebrate Diversity Mangrove Ecology Rodriguez Key Zonation Seagrass Ecology
ELEMENT	SB3.c.	Examine the evolutionary basis of modern classification systems (archaeobacteria, eubacteria, protists, fungi, plants, and animals).
		Everglades Hydrology Sea Turtle Activity
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STANDARD / DESCRIPTION	SB4.	Students will assess the dependence of all organisms on one another and the flow of energy and matter within their ecosystems.
ELEMENT	SB4.a.	Investigate the relationships among organisms, populations, communities, ecosystems, and biomes.
		Plankton Tow Cassiopeia Coral Reef Ecology Everglades Hydrology Rodriguez Key Zonation Water Quality Seagrass Ecology
		Field Identification of Reef Fish Invertebrate Diversity Keys Habitats Intro & Summary Mangrove Ecology Sea Turtle Activity Sponge Spicule Identification
ELEMENT	SB4.b.	Explain the flow of matter and energy through ecosystems by: Arranging components of a food chain according to energy flow; Comparing the quantity of energy in the steps of an energy pyramid; Explaining the need for cycling of major nutrients (C, O, H, N, P).
		Everglades Hydrology Seagrass Ecology
		Mangrove Ecology
ELEMENT	SB4.c.	Relate environmental conditions to successional changes in ecosystems.
		Seagrass Ecology
ELEMENT	SB4.d.	Assess and explain human activities that influence and modify the environment such as global warming, population growth, pesticide use, and water and power consumption.
		Everglades Hydrology Seagrass Ecology Mangrove Ecology
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ELEMENT	SB4.e.	Relate plant adaptations, including tropisms, to the ability to survive stressful environmental conditions.
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ELEMENT	SB4.f.	Relate animal adaptations, including behaviors, to the ability to survive stressful environmental conditions.
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STANDARD / DESCRIPTION	SCSh3.	Habits of Mind: Students will identify and investigate problems scientifically.												
ELEMENT	SCSh3.b.	Develop procedures for solving scientific problems.												
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ELEMENT	SCSh3.c.	Collect, organize and record appropriate data.														
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ELEMENT	SCSh3.d.	Graphically compare and analyze data points and/or summary statistics.														
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STANDARD / DESCRIPTION	SCSh4.	Habits of Mind: Students use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.														
ELEMENT	SCSh4.a.	Develop and use systematic procedures for recording and organizing information.														
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STANDARD / DESCRIPTION	SCSh6.	Habits of Mind: Students will communicate scientific investigations and information clearly.														
ELEMENT	SCSh6.c.	Use data as evidence to support scientific arguments and claims in written or oral presentations.														
		Sea Turtle Activity														
ELEMENT	SCSh6.d.	Participate in group discussions of scientific investigation and current scientific issues.														
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STANDARD / DESCRIPTION	SCSh7.	The Nature of Science: Students analyze how scientific knowledge is developed. Students recognize that:														
ELEMENT	SCSh7.a.	The universe is a vast single system in which the basic principles are the same everywhere.														
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ELEMENT	SCSh7.b.	Universal principles are discovered through observation and experimental verification.														
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STANDARD / DESCRIPTION	SCSh9.	The Nature of Science: Students will enhance reading in all curriculum areas by:														
ELEMENT	SCSh9.c.	Building vocabulary knowledge: Demonstrate an understanding of contextual vocabulary in various subjects; Use content vocabulary in writing and speaking; Explore understanding of new words found in subject area texts.														
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ELEMENT	SCSh9.d.	Establishing context: Explore life experiences related to subject area content; Discuss in both writing and speaking how certain words are subject area related; Determine strategies for finding content and contextual meaning for unknown words.														
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STRAND/TOPIC	GA.SEV.	Environmental Science: Co-Requisite - Content														
STANDARD / DESCRIPTION	SEV1.	Students will investigate the flow of energy and cycling of matter within an ecosystem and relate these phenomena to human society.														
ELEMENT	SEV1.a.	Interpret biogeochemical cycles including hydrologic, nitrogen, phosphorus, oxygen, and carbon cycles. Recognize that energy is not recycled in ecosystems.														
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ELEMENT	SEV1.b.	Relate energy changes to food chains, food webs, and to trophic levels in a generalized ecosystem, recognizing that entropy is a primary factor in the loss of usable food energy during movement up the trophic levels.														
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ELEMENT	SEV1.d.	Relate the cycling of matter and the flow of energy to the Laws of Conservation of matter and energy. Identify the role and importance of decomposers in the recycling process.														
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ELEMENT	SEV1.e.	Distinguish between abiotic and biotic factors in an ecosystem and describe how matter and energy move between these.
		Plankton Tow Coral Reef Ecology Everglades Hydrology Mangrove Ecology
		Keys Habitats - Intro & Summary Rodriguez Key Zonation Seagrass Ecology Water Quality
STANDARD / DESCRIPTION	SEV2.	Students will demonstrate an understanding that the Earth is one interconnected system.
ELEMENT	SEV2.a.	Describe how the abiotic components (water, air, and energy) affect the biosphere.
		Coral Reef Ecology Mangrove Ecology Water Quality
		Keys Habitats - Intro & Summary Rodriguez Key Zonation
ELEMENT	SEV2.c.	Characterize the components that define a Biome (Abiotic Factors - to include precipitation, temperature and soils; Biotic Factors - plant and animal adaptations that create success in that biome).
		Plankton Tow Cassiopeia Culturing Coral Reef Ecology Everglades Hydrology Seagrass Ecology Rodriguez Key Zonation Water Quality
		Field Identification of Reef Fish Invertebrate Diversity Keys Habitats - Intro & Summary Mangrove Ecology Sponge Spicule Identification Sea Turtle Activity
ELEMENT	SEV2.d.	Characterize the components that define fresh-water and marine systems (Abiotic Factors - to include light, dissolved oxygen, phosphorus, nitrogen, pH and substrate; Biotic Factors - plant and animal adaptations characteristic to that system).
		Plankton Tow Cassiopeia Culturing Coral Reef Ecology Everglades Hydrology Seagrass Ecology Rodriguez Key Zonation Water Quality
		Field Identification of Reef Fish Invertebrate Diversity Keys Habitats - Intro & Summary Mangrove Ecology Sponge Spicule Identification Sea Turtle Activity
STANDARD / DESCRIPTION	SEV3.	Students will describe stability and change in ecosystems.
ELEMENT	SEV3.a.	Describe interconnections between abiotic and biotic factors, including normal cyclic fluctuations and changes associated with climatic change (i.e. ice ages).
		Mangrove Ecology
ELEMENT	SEV3.b.	Explain succession in terms of changes in communities through time to include changes in biomass, diversity, and complexity.
		Seagrass Ecology
ELEMENT	SEV3.e.	Describe interactions between individuals (i.e. mutualism, commensalisms, parasitism, predation, and competition).
		Seagrass Ecology

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ELEMENT	SEV3.e.	Describe interactions between individuals (i.e. mutualism, commensalisms, parasitism, predation, and competition).														
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STANDARD / DESCRIPTION	SEV4.	Students will understand and describe availability, allocation and conservation of energy and other resources														
ELEMENT	SEV4.c.	Describe how energy and other resource utilization impact the environment and recognize that individuals as well as larger entities (businesses, governments, etc.) have impact on energy efficiency.														
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ELEMENT	SEV4.f.	Describe the need for informed decision making of resource utilization. (i.e. energy and water usage allocation, conservation, food and land, and long-term depletion)														
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STANDARD / DESCRIPTION	SEV5.	Students will recognize that human beings are part of the global ecosystem and will evaluate the effects of human activities and technology on ecosystems.														
ELEMENT	SEV5.c.	Explain how human activities affect global and local sustainability.														
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ELEMENT	SEV5.d.	Describe the actual and potential effects of habitat destruction, erosion, and depletion of soil fertility associated with human activities.														
		Keys Habitats - Intro & Summary														
ELEMENT	SEV5.e.	Describe the effects and potential implications of pollution and resource depletion on the environment at the local and global levels (e.g. air and water pollution, solid waste disposal, depletion of the stratospheric ozone, global warming, and land uses).														
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ELEMENT	SEV5.f.	Describe how political, legal, social, and economic decisions may affect global and local ecosystems.														
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STRAND/TOPIC	GA.SCSH.	Earth Systems: Co-Requisite - Characteristics of Science														
STANDARD / DESCRIPTION	SCSh3.	Habits of Mind: Students will identify and investigate problems scientifically.														
ELEMENT	SCSh3.b.	Develop procedures for solving scientific problems.														
		Mangrove Ecology														

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STRAND/TOPIC	GA.SES.	Earth Systems: Co-Requisite - Content
STANDARD / DESCRIPTION	SES1.	Students will investigate the composition and formation of Earth systems, including the Earth's relationship to the solar system.
ELEMENT	SES1.a.	Describe the early evolution of the Earth and solar system, including the formation of Earth's solid layers (core, mantle, crust), the distribution of major elements, the origin of internal heat sources, and the mechanism by which heat transfer drives plate tectonics.
		Mangrove Ecology
ELEMENT	SES1.d.	Describe how the Earth acquired its initial oceans and atmosphere.
		Mangrove Ecology
ELEMENT	SES1.e.	Identify the transformations and major reservoirs that make up the rock cycle, hydrologic cycle, carbon cycle, and other important geochemical cycles.
		Mangrove Ecology
STANDARD / DESCRIPTION	SES4.	Students will understand how rock relationships and fossils are used to reconstruct the Earth's past.
ELEMENT	SES4.b.	Interpret the geologic history of a succession of rocks and unconformities.
		Mangrove Ecology
STANDARD / DESCRIPTION	SES5.	Students will investigate the interaction of insolation and Earth systems to produce weather and climate.
ELEMENT	SES5.d.	Describe how temperature and precipitation produce the pattern of climate regions (classes) on Earth.
		Mangrove Ecology
STANDARD / DESCRIPTION	SES6.	Students will explain how life on Earth responds to and shapes Earth systems.
ELEMENT	SES6.e.	Identify the evolutionary innovations that most profoundly shaped Earth systems: photosynthetic prokaryotes and the atmosphere; multicellular animals and marine environments; land plants and terrestrial environments.
		Mangrove Ecology

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