



Everglades Lesson Breakdown

Grade	Lesson Number	Title of Lesson	Standards	Fundamentals Concepts
Theme		Summary of Lesson		
Pre-Kindergarten Early Everglades Explorers will discover the many wonders of the Everglades using their senses.	Intro	Welcome to the Everglades Students will be introduced to the Florida Everglades and learn that it is a place of watery wonder that they can explore using their senses.	II., IV., V., VI., VII., VIII.	1, 2, 7
	Science Inquiry	Everglades "Sensory" Treasures Students will use science processing skills such as classifying, communicating, measuring, and observing to describe living and non-living natural "treasures" found in the Everglades.	IV., V., VI.	5
	Art	A "Touch" of Muhly Grass Students will learn that plants, such as grasses, are an important part of the Everglades by crafting their own native grass project.	I., IV., VI., VIII.	1, 5
		"Eye" Spy in the Everglades Students will craft their own set of binoculars to identify animals in the Everglades through a search activity.	I., II., IV., VI., VIII.	1, 5
Creative Expression Through Music and Movement	Freeze and Act! - Everglades Animals Students will explore and begin to identify animals in the Everglades and how they move during a creative expression of movement activity.	I., II., IV., VI., VIII.	1, 5	



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Kindergarten The Everglades is a special place that is home to plants and animals.	1	What is the Everglades? Students will be introduced to the Everglades, learning about this special place for plants and animals that is unlike anywhere else on Earth. They will watch a presentation on some of the animals that live in the Everglades and start working on their Everglades coloring book.	SC. K. L.14.3, ELA.K.R.1.1, ELA.K.R.2.2, ELA.K.R.3.2, ELA.K.C.2.1, ELA.K.C.4.1	1, 5
	2	Everglades Animals Students will review the similarities and differences between some of the animals that live in the Everglades. They will continue to work on their Everglades coloring book.	SC.K.L.14.3, SC.K.N.1.5, ELA.K.R.3.2, ELA.K.C.1.4, ELA.K.C.5.1	1, 5
	3	Who Lives in the Everglades? Students will engage in an interactive presentation to review some of the animals that live in the Everglades. Then, they will sort cards depicting animals that do and do not live in the Everglades.	SC.K. N.1.4, ELA.K.R.2.2, ELA.K.C.2.1, ELA.K.C.4.1, ELA.K.C.5.1	1, 5
First Grade Habitats display the vital relationship between plants, animals, and water in the Everglades.	1	Everglades Animal Exploration Students will learn that animals communicate through their senses. The students will use their knowledge and imagination to vocally and/or physically imitate wildlife of the Everglades.	SC.1.L.14.1, SC.1.N.1.2, ELA.1.R.2.2, ELA.1.R.2.3, ELA.1.C.5.1	1, 5
	2	The Everglades-Florida's Treasure Students will be introduced to the plants and wildlife that live in different habitats of the Everglades. Students will identify which habitat(s) organisms live in by sorting cards depicting plants and animals.	SC.1.L.17.1, ELA.1.R.2.1, ELA.1.R.2.2, ELA.1.R.2.3, ELA.1.C.2.1, ELA.1.C.5.1	1, 5
	3	Water For Us All Students will discuss and identify the different ways humans and animals use water. They will complete a matching handout and make the connection that the Everglades is the primary source of freshwater for people, plants, and animals in South Florida.	SC.1.L.17.1, SC.1.E.6.2, ELA.1.R.2.1, ELA.1.R.2.2, ELA.1.C.1.4, ELA.1.C.5.1	1, 2



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Second Grade The behaviors of American alligators and other important species play a huge role in the wet and dry seasons of the Everglades ecosystem.	1	Don't Feed the Gators! Students will read a book on the importance of American alligators and act out a short play which demonstrates the dangers of feeding wild animals.	SC.2.L.17.2, SC.2.L.17.1, ELA.2.R.2.1, ELA.2.R.2.2, ELA.2.R.3.2, ELA.2.C.5.1	1, 2, 5, 7
	2	Everglades Seasons Students will act out an ecodrama in an alligator hole during the dry season. Each student will play the role of an animal that depends on the alligator hole. Students will identify the American alligator as a keystone species that enables other species to survive.	SC.2.L.17.1, SC.2.L.17.2, ELA.2.R.2.3, ELA.2.R.3.2, ELA.2.R.3.3, ELA.2.C.1.2, ELA.2.C.2.1	1, 2, 5, 7
	3	Wet Season - Dry Season Fish Relay Students will be learning about water levels and how they affect the amount of food available for wading birds, such as the Wood Stork. Students will run a relay race imitating parent Wood Storks feeding their babies; one team during the wet season, the second team during the dry season.	SC.2.L.17.2, SC.2.N.1.3, ELA.2.C.1.2, ELA.2.C.5.1, ELA.2.V.1.1	1, 2, 5, 7
Third Grade Highlighting the flora, fauna, and habitats of the Everglades.	1	Classifying Everglades Animals and their Habitats Students will learn that animals can be classified into six major animal groups and become familiar with Everglades animals in these groups. Students will also learn about the five different habitats of the Everglades where these animals live.	SC.3.L.15.1, SC.3.N.1.1, ELA.3.R.2.2, ELA.3.C.2.1, ELA.3.C.5.1	1, 5
	2	Classifying Everglades Plants and their Habitats Students will identify plants of the Everglades using a dichotomous key and become familiar with the five different habitats of the Everglades where these plants live.	SC.3.L.15.2, ELA.3.R.2.2, ELA.3.C.4.1, ELA.3.C.5.1	1, 5
	3	Hurry for a Habitat! Students will use a relay race activity to reinforce knowledge learned in Lesson 1 and Lesson 2.	SC.3.L.15.1, SC.3.N.1.1, ELA.3.R.2.2, ELA.3.C.1.4, ELA.3.C.4.1, ELA.3.C.5.1	1, 5



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Fourth Grade Understanding how threatened and endangered species and negative human impacts affect the producers, consumers, and food chains in the Everglades.	1	Everglades Food Chains Students will learn about specific Everglades producers, consumers, and food chains through role play.	SC.4.L.17.3, SC.4.L.17.4, ELA.4.C.1.4, ELA.4.C.5.1, MAFS.K12.MP.2.1	1, 5
	2	Wanted - Alive! Students will read a book about the changes to the Everglades. They will research a threatened or endangered animal species and create a poster of their findings.	SC.4.L.17.4, ELA.4.R.2.2, ELA.4.C.1.3, ELA.4.C.4.1, ELA.4.C.5.1	6, 7
	3	I'm in Big Trouble! Students will play a game that demonstrates how animal populations can be negatively impacted by humans.	SC.4.L.17.4, ELA.4.C.1.3	5, 6, 7
Fifth Grade An introduction of exotic and invasive species in the Everglades and the effects of habitat loss.	1	Incredible Shrinking Habitat Students will become Florida panthers, white-tailed deer, and motor vehicles in an active, tag-like game to simulate the disappearance of Everglades habitats and its effect on native wildlife.	SC.5.L.15.1, SC.5.N.2.1, ELA.5.C.1.3, ELA.5.C.5.1	1, 5, 6, 7
	2	Invasive Species Students will examine the effects of exotic and invasive species in an ecosystem using riddles and research. Students will be able to explain how exotic and invasive species can harm native species or habitats in the Everglades.	SC.5.L.15.1, ELA.5.R.2.2, ELA.5.R.3.2, ELA.5.C.4.1, ELA.5.V.1.3	1, 5, 6, 7
	3	Fishy Business Students will examine the effect of invasive species on an ecosystem by role-playing both a healthy food chain, and a food chain that has been impacted by Mayan cichlids. In the process of role-playing, students will compare and contrast the adaptations of a native species and an invasive species.	SC.5.L.17.1, SC.5.N.1.1, ELA.5.V.1.1, ELA.5.C.5.1	1, 5, 6, 7



Everglades Lesson Breakdown

Grade Theme	Lesson Number	Title of Lesson Summary of Lesson	Standards	Fundamentals Concepts
Sixth Grade Exploring the watershed and geology of the Everglades.	1	Kissimmee-Lake Okeechobee-Everglades (K-O-E) Students will be able to identify locations and waterways in the Kissimmee-Lake Okeechobee-Everglades (K-O-E) watershed on a map after watching a video and reading a story.	SC.6.N.3.4, SC.6.E.6.2, ELA.6.R.2.1, ELA.6.R.2.2	2, 3
	2	Rainfall and Water Usage in the Everglades Students will learn about the quantity of freshwater available on Earth and in the Everglades through an experiment.	SC.6.N.3.4, SC.6.E.7.6, ELA.6.C.1.4, MAFS.6.NS.1	3
	3	Florida's Limestone Students will conduct a controlled experiment to determine the effect Florida's limestone has on the pH levels of Florida's water and soil. Students will compare limestone's effect to that of other rocks and minerals found naturally in Florida. At the end of this investigation, students should be able to articulate the effect limestone has on the pH of water in Florida, the importance of this phenomenon, and a basic understanding of the process by which limestone affects pH levels in water.	SC.6.N.1.1, SC.6.N.1.5, SC.6.E.6.2, ELA.6.C.1.4	3
Seventh Grade Exploring the wetlands, groundwater, and aquifers of the Everglades.	1	Functions of Everglades Wetlands Through building a wetland model, students will learn how wetlands in the Everglades function and why it is important to protect them. Students will then associate objects as metaphors for the natural functions of wetlands.	SC.7.E.6.6, ELA.7.C.1.4, ELA.7.V.1.1	2, 5, 6, 7
	2	The Everglades and Aquifers Students will explore the important relationships of aquifers to the Everglades and residents of South Florida and build an aquifer model.	SC.7.E.6.6, ELA.7.C.1.4, ELA.7.V.1.1	2, 5, 6, 7
	3	Groundwater Pollution Students will use the aquifer model from the previous lesson to discuss pollution, how it affects the Everglades, and the different ways we use water.	SC.7.E.6.6, SC.7.L.17.3, ELA.7.C.1.4, ELA.7.V.1.1	2, 5, 6, 7



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Grade	Lesson Number	Title of Lesson	Standards	Fundamentals Concepts
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Eighth Grade Human impacts on the Everglades ecosystem.	1	Water Users in the Everglades Students will participate in a lab experiment where they identify the different water users in the Everglades and how much water is consumed by each user group. Students will recognize ways to conserve water and discuss why water conservation is important to the Everglades.	SC.8.N.4.2, ELA.8.C.1.4, ELA.8.C.1.5, MAFS.K12.MP.4.1	1, 2, 3, 7
	2	Threats to the Everglades Students will evaluate different benefits (ecosystem services) that the Everglades provides to humans. They will learn about six different threats that impact the Everglades ecosystem and humans, and design a poster for each threat.	SC.8.N.4.2, ELA.8.R.2.1, ELA.8.C.1.4, ELA.8.C.4.1	1, 2, 5, 6, 7
	3	Everglades Dilemmas Students will be presented with different “water dilemmas” affecting the Everglades. Teams will analyze the different scenarios, select which action they would take related to the dilemmas, and justify their reasoning.	SC.8.N.4.2, ELA.8.C.1.4	1, 2, 5, 6, 7
9th-12th Our Watershed	1	The Heart of a Watershed In small groups, students build a landscape model to illustrate the uniqueness of the Kissimmee-Lake Okeechobee-Everglades (K-O-E) watershed, and then modify the model to demonstrate how alterations have affected the K-O-E watershed.	SC.912.L.17.16, SC.912.L.17.8, ELA.K12.EE.1.1	1, 2, 3, 4, 5
	2	Parallels In order to compare weather, climate, and other environmental factors of the K-O-E watershed to other places on or near the 28th parallel, students will trace the latitude of the Everglades and different locations around the world.	SC.912.E.6.4, ELA.K12.EE.1.1, ELA.K12.EE.2.1	2, 3
	3	Survival Students will learn about the Everglades ecosystem by “traveling” through the plant communities of the Everglades watershed.	SC.912.E.6.4, ELA.K12.EE.4.1	3, 4, 5



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9th-12th Amazing Adaptations	1	Living on the Edge Students learn about the unique adaptations mangroves have that allow them to live in coastal communities. Students construct models to demonstrate how mangroves help protect shorelines and contribute to the growth of the peninsula.	SC.912.L.17.7, SC.912.L.17.8, ELA.K12.EE.4.1, MAFS.K12.MP.4.1	1, 2, 5, 7
	2	Design a Perfect Beast Students become "bioengineers" by engineering an animal that is adapted to a specific Everglades ecosystem, creating "perfect beast."	SC.912.L.17.7, ELA.K12.EE.4.1	6, 7
	3	Crossing Lines Students will explain the concepts of "ecotone" and "edge effect", and use a diagram to describe how this relates to biological diversity.	SC.912.L.17.7, ELA.K12.EE.4.1, MAFS.912.S-IC.2.3	1, 2
9th-12th Water Use and Society	1	Tragedy of the Commons Students will explore how the common usage of a potentially renewable resource can lead to its exploitation.	SC.912.L.17.11, SC.912.N.3.5, ELA.K12.EE.4.1	1, 2
	2	A Question of Quantity Students will look at a typical water conservation plan and analyze it from the viewpoint of various stakeholders.	SC.912.L.17.17, SC.912.L.17.20, ELA.K12.EE.4.1	1, 2, 6, 7
	3	A Question of Quality Students will learn about Everglades water quality management and will analyze sample data from a Stormwater Treatment Area (STA).	SC.912.L.17.17, SC.912.L.17.16, ELA.K12.EE.1.1, MAFS.912.S-IC.2.6	1, 2, 6, 7



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9th-12th Everglades Restoration	1	Everglades Restoration Students explore the costs and environmental impacts of land development and restoration.	SC.912.L.17.11, SC.912.L.17.12, SC.912.L.17.16, ELA.K12.EE.1.1 MAFS.K12.MP.1.1	1, 7
	2	Our Changing Watershed Using the Restudy, students will evaluate the conditions of our watershed that prompted the development of the Comprehensive Everglades Restoration Plan (CERP) and evaluate whether or not CERP addresses these issues.	SC.912.L.17.16, SC.912.L.17.17, SC.912.N.4.1, ELA.K12.EE.1.1 ELA.K12.EE.4.1	1, 2, 5, 6, 7
	3	A Look at CERP Students will analyze information about various current and ongoing Comprehensive Everglades Restoration Plan (CERP) projects and report on the progress that is being made.	SC.912.L.17.16, SC.912.L.17.17, SC.912.L.17.18, ELA.K12.EE.1.1, ELA.K12.EE.2.1, ELA.K12.EE.3.1	1, 2, 5, 6, 7