

Oatland Island Wildlife Center **Program Guide**

To reference Georgia Performance Standards visit: www.georgiastandards.org

Pre-Kindergarten Programs

Hop, Run, Slither and Swim (Animal Movement)

The main focus of this one-hour program is for students to learn that all animals are involved in some type of movement. Students will observe live animals and participate in simple movement exercises during their program.

Kindergarten Programs

Beach Explorations

Explore the "BEACH", a special place where land meets the sea. This program will introduce students to what the beach is composed of and to the many organisms found there. This program will meet on Tybee Island.

Georgia Performance Standards: SKCS1(a), SKCS3(a), SKE2(b,c), SKL1(a)

Living and Nonliving Wonders

Is a turtle a living thing? How about a rock? Students will be able to answer these questions and more while they explore the natural world. As students make their discoveries they will classify them as living or nonliving. Living organisms will be classified as plants or animals. While nonliving objects that are discovered will be described by at least one of its physical properties.



Georgia Performance Standards: SKCS1(a), SKCS5(a), SKE2(c), SKL1(a,c), SKL2(a,b)

Oatland Island Has a Farm...

In a day when most people are far removed from the origins of their food, there is a need for students to have learning opportunities that help them to understand the relationship between the origin of food, the source of animal products and their use by humans. This program addresses the food chain associated with barnyard animals. Student will know the source of bacon, milk, eggs, and wool as they observe, feed, and even touch barnyard animals.

Georgia Performance Standards: SKCS1(a), SKCS4(c), SKCS5(a), SKP1(b), SKL1(b), SKL2(a)

First Grade Programs

Outstanding Organisms

Through an unforgettable experience at Oatland Island Wildlife Center your students will observe plants and animals and learn how their basic needs are met. Outstanding Organisms incorporates visual and tactile methods to facilitate learning about plants and animals.

Georgia Performance Standards: S1CS1(a), S1CS5(a), S1CS7(d), S1L1(a,b,c,d)

Second Grade Programs



Amazing Animals

Animals are truly amazing. During this program, students will observe a variety of animals in several different habitats. They will have opportunities to compare various animal groups by the way they look, grow, move, and develop. Along our nature trail, they will identify

characteristics of animals that enhance their ability to survive.

Georgia Performance Standards: S2CS1(a), S2CS4 (b,c,d), S2CS5 (a), S2CS6 (b), S2CS7 (a,d), S2L1 (a)

Sand, Wind and Waves – (Beach Study)

Oatland teachers will meet your class at Tybee Island ready to help your students investigate the beach from the sand dunes to the water's edge. States of matter, physical properties of objects, and forces will all become more meaningful to students as they investigate these principles in action at the beach. Be sure to dress for the weather.

Important: Students and teachers will meet the Oatland Teaching staff at North Beach on Tybee Island. Parking for North Beach is located behind the Tybee Museum that is across from the Tybee Light House.

Georgia Performance Standards: S2CS1, S2CS6, S2CS7, S2P1, S2P2, S2P3, S2E2, S2E3

Circles of Life

With the use of our animals, gardens, greenhouse, and trails students will observe many life cycles. Students will observe, and compare different animal organisms in different stages of their life cycles. Students will also learn about how plants move through their life cycle.

Georgia Performance Standards: S2CS1, S2CS3, S2CS4, S2CS5, S2CS7, S2L1

Follow the Drinking Gourd – (Digitalarium)

“Follow the Drinking Gourd” is a story written by Bernardine Connelly about the Underground Railroad. This program combines the story with science, social studies, and history. Participating classes read the book in preparation for their experience, Oatland teachers will then come to your site and set up the “Digitalarium”. Each second grade class will have approximately 20 minutes of classroom instruction time followed by 20 minutes of Digitalarium time. The program explains why the story’s characters followed the North Star and how earth’s rotation affects the night sky. The Digitalarium experience simulates the night sky as well as earth’s rotation, and will show the students several common constellations and stars.

Georgia Performance Standards: S2E1, S2E2, ELA2LSV1, ELA2R3, SS2E3

Third Grade Programs

Hooray for Georgia’s Habitats

Georgia is the largest state east of the Mississippi and is home to a remarkably diverse collection of plants and animals. A variety of Georgia’s habitats will be explored at Oatland (salt marsh, forest, and freshwater) and students will discover what organisms live in these habitats and elsewhere in the state and what features they have that allow them to live and thrive in different regions.

Georgia Performance Standards: S3CS1, S3CS5, S3L1

Home Fires Burning – February 2017 (Log Cabin at Oatland)

Travel back in time to Oatland’s Heritage (two log cabins from the 1800’s) area where students will learn about different types of heat energy and how it was used during the time period in rural Georgia.

Students may participate in the following activities: Candle making, hearth cooking, traditional tools, wool carding, discussion of early insulation techniques and temperature data collection.

Georgia Performance Standards: S3P1, S3CS1 (b, c), S3CS3 (c), S3CS7 (b)



Life Before Lightbulbs – (at Fort Pulaski Jan. 9–Jan. 27)

Students will step back in time and take part in activities that illustrate what life was like for people during the construction and occupation of Fort Pulaski. Students will discover how energy, fire, and heat played an important role in the 1800's and in the lives of the soldiers during the time period.

Georgia Performance Standards: S3P1(a), S3P1(b,c,d), S3CS7(b), S3CS1(c)



Duckweed and Dragonflies – (A Pond Study)

Freshwater ponds are an important resource for all organisms, including people. Students will learn about the role ponds play in the water cycle, how they are formed, and the diversity of organisms that depend on ponds for life. Students will observe and collect organisms and show how individual traits help the organisms survive. Students also learn how humans impact water resources and how humans can protect pond habitats.

Georgia Performance Standards: S3CS1, S3CS3, S3CS5, S3CS8, S3L1, S3L2

Weathering, Erosion & Deposition

Students will explore Oatland's trails and habitats and learn how natural forces and living organisms play a part in the weathering of sediments along our coastal plain.

Georgia Performance Standards:, S3CS1, S3E1(d)

Let's Rock In Georgia

What is a rock? What is a mineral? Do you know the difference? How hard is the mineral? Why does it smell? Students will discover the answers to these questions and more during this in school program.

Georgia Performance Standards: S3P1(a,b,c,d), S3CS1(c), S3CS3(c), S3CS4(a), S3CS7(b), SS3E1, SS3E3, M3M2(a), M3D1(a)

Fourth Grade Programs

Forest Web of Life

Walking through acres of Oatland forest you will become aware of its connection with the ever-changing Web of Life. While exploring the forest students will identify and record the roles of its producers, consumers, and decomposers. Students will demonstrate how these three parts are connected to form first food chains and then food webs.

Georgia Performance Standards: S4L1 (a,b,c), S4CS1 (a), S4CS5 (b)

Tidal Creek Ecology (currently unavailable)

In Georgia thousands of tidal creeks flow like beautiful ribbons through acres of wet, muddy marshlands and create a dynamic habitat for some unusual organisms. The waters here rise and fall twice each day to continually irrigate and flush these extremely rich, nutrient producing wetlands. Students collect data and observe organisms in the salt marsh ecosystem through a living lab, a non-living lab, and a boat trip down Richardson's Creek. They learn how organisms have adapted to survive in this unique, but harsh environment, and how they are interconnected with each other and with humans through a food web.

Georgia Performance Standards: S4CS1, S4CS3, S4CS4, S4CS7, S4CS8, S4E2, S4L1, S4L2

Salt Marsh Ecology

The salt marsh sustains countless species, ranging from the *Spartina* (cordgrass) to periwinkle snails and from pelicans to people. Students will observe a wide variety of plant and animal life in this rich and often overlooked environment. Students will also explore the constantly changing salinity, temperature and water levels of the salt marsh and learn how these conditions affect the organisms that live in the salt marsh. Salt marshes provide nesting and resting places for birds, provide an economic value through fishing and the shrimp industry, as well as a recreational value for humans. Join us for a day of discovery in the salt marsh!



Georgia Performance Standards: S4CS1, S4CS3, S4CS4, S4CS7, S4CS8, S4E2, S4L1, S4L2.

Animal Adaptations

Staying alive in the natural world is not an easy task. Organisms have characteristics and behaviors that help them survive in their particular habitats (adaptations). These adaptations have evolved slowly through many generations of organisms. At the present time, humans are causing the natural world to change at such a rapid rate that many animals do not have the proper adaptations to deal with the changes. These animals become endangered while those that have more flexible needs survive to produce more offspring. The animal adaptations field trip will focus mainly on animal adaptations such as color, patterns, body shape, and behaviors.

Georgia Performance Standards: S4CS1, S4CS4, S4CS6, S4L1, S4L2

The Sun, Moon and Stars- (Digitalium)

This one hour in-school program focuses on the question of why we experience seasons. During the first half hour an Oatland teacher will explain the historical misconceptions of seasons and then with the use of manipulatives give the scientific explanation for our seasons. The students will then spend the second half of the class in the Digitalium where they will observe the rotation of the earth, the motion of the sun and other celestial objects and constellations during the different seasons.

Georgia Performance Standards: S4E1, S4E2, S4CS1, S4CS4, S4CS5, S4CS7

Fifth Grade Programs



Organism Classification

Is that big tan cat you see a cougar, a mountain lion, a puma or a Florida panther? The answer is **yes** if you're looking at a *Puma concolor!* Classification is the arrangement of objects, ideas, or information into groups. Organism classification groups all living things on the basis of certain

characteristics they have in common and uses Latin words to give each animal and plant a name that identifies the organism. This field trip exposes students to methods used by scientists to classify organisms. After a brief indoor orientation, students will have the opportunity to classify the animals that live at Oatland Island.

Georgia performance standards: S5CS1, S5CS5, S5CS6, S5L1, S5L2

River of Sand – (Beach Study)

Most people love to spend time on the beach, but few realize the significance of the forces that act upon it, and the importance of the development of a healthy dune system. The River of Sand trip will explore the unique and ever-changing beach environment. Students will study the beach and dune ecosystems, focusing on the forces that threaten their stability and the organisms that contribute to a fascinating community.

Important: Students and teachers will meet the Oatland teaching staff in the parking lot behind the Tybee Museum-across from the Tybee Lighthouse on Tybee Island

Georgia Performance Standards: S5CS1(b,c), S5CS3(d), S5CS4(a,b,c), S5CS8(a,b), S5E1(a,b,c), S5L1(a,b)

Marine Ecology

Marine ecology includes the study of the ocean, estuaries, tidal creeks, and salt marshes. Tidal creeks serve as a nursery habitat for many of the ocean animal species. Students will take a closer look at how living and non-living things interact in the tidal creek habitat. Students will collect, observe, and identify plankton and other marine organisms, and investigate some of the abiotic factors that may have an effect on them. Students will also explore the many ways that humans benefit from, and influence the health of our coastal environment



Georgia Performance Standards: S5CS1 (a, c, d), S5CS3 (c, d), S5CS7 (a), S5CS8 (a, b), S5P2 (c), S5L1 (a)

Group Challenge

Working in groups is an everyday part of life. We find ourselves in a group when we are in a family, with our friends, and in the workplace. For this reason, it is important to function as effective group members and examine our roles in the group process. During this field trip, students will participate in mental and physical challenges that require full group cooperation and provide opportunities for students to function as effective group members while examining their individual roles in the group process.