



Hello!

Thank you for your interest in the educational programs at Lyonia Environmental Center (LEC)!

By planning a field study to the LEC, you are providing an opportunity for your students to participate in an innovative experience, all while learning about a unique ecosystem - the Florida scrub. From visiting our animal ambassadors in the Discovery Room to guided explorations of the hiking trails in Lyonia Preserve, your students will gain firsthand knowledge of the local environment, learn about sustainability issues and solutions, all while having fun!

Our goal at Lyonia Environmental Center is to provide visitors with a unique insight into Volusia County's ecosystems, while promoting an understanding of the County's natural environment, the heritage it sustains and the challenges it faces.

If you have any questions, feel free to contact Shari Smith, LEC Education Coordinator, via e-mail at ssmith@volusia.org or by phone at (386) 789-7207 ext #21026. She is your point person for your field study and will be there every step of the way to ensure that your day is as rewarding and exciting as possible.

I look forward to seeing you and your students soon!

Warmest regards,

Sandy Falcon

Manager

Lyonia Environmental Center

2150 Eustace Avenue

Deltona, FL 32725

Email: sfalcon@volusia.org

Phone: (386) 789-7207 Ext. #21025

Fax number: (386) 789-7537

Field Trip Activities

GUIDED HIKE (INCLUDED IN ALL FIELD TRIPS)

This is an introductory hike in Florida's unique scrub habitat. Students will learn the basics of scrub habitat-what it is and why it is important. They will also learn about the plants and animals that depend on it for survival and how they have adapted to survive in this hot, dry environment.

DARE TO DISCOVER: (INCLUDED IN ALL FIELD TRIPS)

Students will learn about the importance of scrub habitat, the role it plays in helping to recharge the aquifer, the ancient beach Lyonia Preserve once was, water conservation, and threatened and endangered animals on a guided tour of LEC's exhibit gallery. Students will also learn about marine invertebrates through our saltwater encounter tank. If circumstances allow, students may have the opportunity to touch some of these creatures.

Programs/Activities Descriptions (Choose 2 programs from this list)

3 T'S-TURTLES, TORTOISES, TERRAPINS

What's the difference between a turtle, tortoise and terrapin? Students will learn about the "landlord of the scrub"-the gopher tortoise, Volusia County's threatened and endangered sea turtle species, as well as diamondback terrapins that live in estuaries. This indoor activity will provide aquatic and terrestrial fun as we learn about the adaptations of these chelonians and create a take-home craft.

BUILD-A-BIRD

Students will learn about the anatomical features of birds and the adaptations that help them to survive in the environments in which they either visit or reside. Students will compare and contrast features of different types of birds in relation to their environment. Students will use critical thinking skills as well as personal creativity to design a bird. This is an indoor activity with a take home craft. Students need to be able to trace.

FLY AWAY BUTTERFLY

Butterflies and moths are beautiful, amazing insects! Students will be intrigued with the metamorphosis process as they learn to identify the stages of a butterfly's life cycle, migration patterns and the importance of host plants. This program may include live caterpillars (with possible butterflies) if booked in May or June. This is an indoor activity with a take home craft.

NATIVE VS. EXOTIC-LIVE ANIMAL ENCOUNTER

Meet the LEC animal ambassadors! Students will learn the difference between native and exotic and the impact exotics can have on our native species. This program features species native to Florida as well as others from far away (including snakes). If circumstances allow, students will have the opportunity to touch several of the live animals. This program may be held indoors or outdoors.

SAND ART PLEDGE

Students will learn about environmental stewardship while making/decorating personal pledges that highlight ways they can help protect endangered species, the environment and Lyonia Preserve. Teachers

may choose from a gopher tortoise, Florida scrub jay or a sea turtle. This activity may be offered indoors or outdoors and includes a take home craft.

SECRET WEAPONS

Many insects spit, spray, sting, and bite in response to being disturbed or threatened. Sometimes an insect's physical appearance itself can be a type of self-defense. Students will learn about insects, scorpions, spiders and other creatures that use these tactics and how these adaptations have helped them survive for centuries. Students will use critical thinking skills as well as personal creativity while making a take home craft in this indoor activity.

SSSSLITHERIN' SNAKES

Florida is home to many species of snakes! In this interactive program, students will learn about snake anatomy, diet, and how to recognize the 4 most common venomous snakes found in Volusia County. Students will learn to appreciate the important role these amazing reptiles play in the ecology of Florida, as we discuss food chains and life cycles. An encounter with one of LEC's live non-venomous snake ambassadors is possible in this activity.

SURVIVAL MATCH-UP

In this hands-on interactive program, students will learn fun facts about the survival skills, adaptations, diet and more of several native preserved animal specimens (taxidermy animals). The Florida black bear, bobcat, wild turkey, eastern diamondback rattlesnake and raccoon are used.

SKULLS, SCATS & TRACKS

Skulls, scats & tracks can tell us a lot! Students will learn how to identify evidence left behind to determine what animals live in or travel through a habitat. This hands-on activity may be offered as an indoor or outdoor activity.

WHAT'S FOR DINNER? OWL PELLETS LAB

(Add \$2 per student to standard program cost if selecting this program)

Owls can't digest bones, fur & feathers and therefore regurgitate them in pellets. In this hands-on lab, participants will learn basic owl anatomy, which species of owls are frequently found in Volusia County and will examine the contents of owl pellets while learning what and how owls eat. This is an indoor activity. (Bones may be taken home if desired). This is an indoor activity.



Lyonia Environmental Center Program Guide

#	Program Name	Suggested Grade Level	Max Group Size
1	3 T's: Turtles, Tortoises, Terrapins	1-12	70
2	Build-A-Bird	2-12	70
3	Fly Away Butterfly	K-12	70
4	Native vs. Exotic Live Animal Encounter	K-12	70
5	Sand Art Pledge	K-12	70
6	Secret Weapons	3-12	70
7	SSSSlitherin' Snakes	K-12	70
8	Survival Match-Up	K-12	70
9	Skulls, Scats & Tracks	2-12	70
10	What's for Dinner? Owl Pellet Lab	3-12	70

In addition to the 'Guided Hike' and the 'Dare to Discover' programs, please choose two additional program options for your field trip.



Lyonia Environmental Center
2150 Eustace Avenue, Deltona, FL 32725

- Take I-4 to EXIT 114 (SR-472 exit), exit toward DELTONA/DELAND
- Merge on FL-472 E
- FL-472 E becomes CR-4145 E/HOWLAND BLVD
- Turn RIGHT onto PROVIDENCE BLVD/CR 4155
- Turn RIGHT onto EUSTACE AVE.
- Take first LEFT into the Deltona Regional Library Complex and Lyonia Environmental Center



VOLUSIA COUNTY LYONIA ENVIRONMENTAL CENTER
Photo / Video Release Policy

The County of Volusia strives to present youths and adults in a complimentary and appropriate manner. Photographs and video images are typically used in displays, advertising, printed materials, such as informational and promotional brochures, on the County’s websites and for training purposes. Photographs also may be distributed to the news media for publication.

By signing this form, I give the County of Volusia permission to publish or use video images, photographic portraits or pictures of me, along with my name, for art, advertising, trade, public information or any other lawful purpose.

I waive inspecting and/or approving the finished product or the copy that is used in connection with the publication.

I release the County of Volusia from any liability from the use of my image in video and/or photograph or reproduction thereof.

Note: For minors, a signature is required by BOTH the minor and parent/legal guardian _____ / _____
PROGRAM START DATE / PROGRAM END DATE

NAME OF PARTICIPANTS

NAME OF PARTICIPANTS

EMAIL ADDRESS

ADDRESS

CITY/STATE

ZIP

PHONE

SIGNATURE OF PARTICIPANT

SIGNATURE OF PARENT/LEGAL GUARDIAN

PARTICIPANT RELEASE OF LIABILITY (READ BEFORE SIGNING)

In consideration of being allowed to attend and participate in any way in the County of Volusia sponsored activities and related programs and events, I agree that:

The risk of injury from attendance at the participation in sponsored activities is significant, include for permanent disability and death, and while particular rules, equipment, and personal discipline may reduce this risk, the risk of serious injury to me does exist: and,

I KNOWINGLY AND FREELY ASSUME ALL SUCH RISKS, BOTH KNOWN AND UNKNOWN, EVEN IF ARISING FROM THE NEGLIGENCE OF THE RELEASEES or others, and assume fully responsibility for my attendance or my child’s attendance and participation; and,

I agree to comply with the stated and customary terms and conditions for attendance and participation. If I observe any unusual significant concern in my attendance or my child’s attendance or readiness for participation and/or in the sponsored activity itself, I will remove my self or my child from the sponsored activity and bring my concern to the attention of the nearest division employee immediately; and

I, for myself, my child and on behalf of my/our heirs, assigns, personal representatives and next of kin, **HEREBY RELEASE THE COUNTY OF VOLUSIA, other participants, sponsoring agencies, sponsors, advertisers and owners and lessors** of the premises used to conduct the sponsored activities, their officials, officers, employees and/or agents (“Releases”), **WITH RESPECT TO ANY AND ALL INJURY, DISABILITY, DEATH** or loss or damage to person or property incident to my or my child’s attendance at or participation in sponsored activities, **WHETHER ARISING FROM THE NEGLIGENCE OF THE RELEASEES OR OTHERWISE**, to the fullest extent permitted by law.

I, for myself my child and on behalf of my/our heirs, assigns, personal representatives and next of kin, **HEREBY INDEMNIFY AND HOLD HARMLESS** all the above Releases from any and all liabilities incident to my or my child’s involvement or participation in sponsored activities, **EVEN IF ARISING FROM THEIR NEGLIGENCE** , to the fullest extent permitted by law.

I HAVE READ THIS RELEASE OF LIABILITY AND ASSUMPTION OF RISK AGREEMENT, FULLY UNDERSTAND ITS TERMS, UNDERSTAND THAT I HAVE GIVEN UP SUBSTANTIAL RIGHTS BY SIGNING IT, AND SIGN IT FREELY AND VOLUNTARILY WITHOUT ANY INDUCEMENT.

PARTICIPANT SIGNATURE

(PRINT NAME)

PARTICIPANT SIGNATURE

(PRINT NAME)

DATE

PARENT/GUARDIAN SIGNATURE

(PRINT NAME)



**Lyonia Environmental Center
Educational Program Participant General Release of Liability Form
Volusia County Growth and Resource Management Department**



I, _____ certify, on behalf of my minor child or ward, _____ (“Child”) that I voluntarily consent to allow my Child to participate in one or more recreational or educational programs hosted by the County of Volusia (“County”) on property owned or otherwise controlled by the County of Volusia (hereinafter “Activity”). I understand that the County is affording my Child the opportunity to participate in this Activity or Activities so that he/she may enjoy recreational and/or educational opportunities at nominal or no cost, and that, given the liabilities, hazards, and risks inherent to typical indoor and outdoor activities, it would not be economically feasible or sustainable for the County to offer such opportunities absent the execution of this release. I also understand that even if the County uses reasonable care in providing its programs, these programs have inherent risks that could lead to injury to or death of participants that cannot be entirely avoided or eliminated, including, but not limited to, potentially harmful encounters with flora and fauna or actions by other program participants. In consideration for the opportunity to allow my Child to participate in the Activity and other valuable consideration, I, on behalf of my Child, acknowledge and agree to the following:

1. I hereby release, waive, discharge, and agree not to sue the County of Volusia, its directors, officers, agents and employees (hereinafter referred to collectively as “County”), to the extent permitted by law, for any and all liability to my Child and/or undersigned for any and all loss, injury, damage, and any actions, claims, demands, damages, costs or expenses, including, but not limited to, negligence by the County, which my Child or I may have against the County arising out of or in any way connected with the participation of my Child in a County of Volusia educational program. I execute this form on behalf of myself, my Child and my/our heirs, assigns, personal representatives and next of kin.
2. I understand that I have the right to not sign this form but that my Child will not be allowed to participate in any County of Volusia educational program until this form is executed by me. I also understand that the authorization and releases granted herein are voluntary and that I may revoke any or all of them at any time by revoking them in writing to the Director of Environmental Management: Environmental Management Director, Volusia County, 123 West Indiana Ave Room 202, Deland, FL 3272.
3. I understand that this release is unconditional and full without any limitation or exclusion. This completed form must be kept on file by the Volusia County Environmental Management Department. This form is valid only for the calendar year in which it is executed. The provisions of this release are severable, and, if any provision hereof is determined to be illegal or unenforceable, the remaining provisions and any partially enforceable provisions shall nevertheless remain in full force and effect.

Parent/Guardian Signature

Date

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I waive inspecting and/or approving the finished product or the copy that is used in connection with the publication.

I release the County of Volusia from any liability from the use of my image in video and/or photograph or reproduction thereof.

Date: _____

Name of Child: _____

Address: _____

City/State: _____

Phone: _____ Signature of parent/legal guardian: _____