



P₃ ECO Challenge

Awards Ceremony
May 11, 2022





The Broward P₃ Eco-Challenge is a multi-divisional and organizational effort between Broward County Public Schools (BCPS), Broward County Natural Resources Division and the Environmental Conservation Organization. A P₃ Committee, represented by members from these organizations was formed to create and implement this wonderful initiative to recognize and reward our schools, teachers, students, non-instructional and custodial staff for their many efforts to learn about and implement environmentally sustainable measures and green initiatives within our schools and communities.

There are two areas of recognition: The P₃ School Challenge and the P₃ Stewardship Recognition. The school challenge entails demonstrating participation in or implementation of different sustainability metrics based on a rubric composed of six comprehensive categories: School Grounds Enhancement, School Sustainability, Curriculum Integration, Community Involvement, Administrative Support, and Innovation/Special Projects.

The P₃ Stewardship Recognition rewards teachers, students, non-instructional and custodial staff who show evidence of promoting civic responsibility, environmental stewardship, and education of environmental issues. The metrics of this category include: Awareness and Involvement, Current Professional Development/Affiliation, Instructional Soundness and Creativity, and Skill Building.

P₃ Committee

Dr. Stephanie Molloy, Director, Broward County Natural Resource Division,
Monica Pognon, Assistant Director, Broward County Natural Resource Division.

Staff Members:

Victor Suarez, Kimberly Mayo and Rose Bécharde-Butman

Susan Cantrick, Director, BCPS Applied Learning Department.

Dr. Lisa Milenkovic, STEM+CS Supervisor.

Instructional Facilitators:

Rebecca Malones, Summer Scarlatelli, Sheryl Arriola, Cindy Griffin, Erik Leitner,
Belinda Beckford, Annmargareth Marousky, Kelly Thomas, Elaine Fiore, Adrian Carter,
Nunderia Adderley, and Justin Feller

Environmental Conservation Organization:

Dawn Miller-Walker – Science Eye

Andy Roberts - Youth Environmental Alliance

Steve Weinsier – Allstate Resource Management

Robin Reccasina - Sawgrass Nature Center and Wildlife Hospital

**PROGRAM
AGENDA**

P₃ Eco-Challenge Awards Ceremony

Reception

Opening Remarks

Dr. Lisa Milenkovic, STEM+CS Supervisor,
BCPS Applied Learning Department

Welcome

Commissioner Beam Furr, Broward County Commission District 6
Laurie Rich Levinson, Chair, School Board of Broward County,
District 6

Introduction

Dr. Stephanie Molloy, Director, Broward County
Natural Resources Division

Keynote Speaker

Adam Roberti, Xavier Cortada Foundation
How Low Can You Go Special Presentation
Dr. Lisa Milenkovic, STEM+CS Supervisor,
BCPS Applied Learning Department

Recognition of All Stewards

Dawn Miller-Walker, Environmental Conservation Organization
Andy Roberts, Environmental Conservation Organization
Dr. Lisa Milenkovic, STEM+CS Supervisor,
BCPS Applied Learning Department

Stewardship Awards

School Awards

Individual Categories

All Categories

Closing Remarks

Thank you Long Key Nature Center for hosting the P₃ Eco-Challenge Awards Ceremony!



About Long Key Natural Area & Nature Center: At 164.8 acres, this site is one of the largest natural areas managed by Broward County Parks and Recreation. As recently as a century ago this elevated oak hammock was part of a series of islands surrounded by Everglades marshes. Long Key encompasses some of the most significant archaeological, historical, and ecological resources in the county, as the area was inhabited by the ancient Tequestas and the more modern Seminoles.

Long Key's magnificent live oak hammock has served as an important habitat for wildlife and is one of the largest remaining stands of upland hardwood forest in Broward County. Typical trees found in the hardwood forest include live oak, red bay, paradise tree, strangler fig, and the occasional cabbage palm and gumbo limbo. Among the diverse plants you can see are many species of epiphytic bromeliads and ferns that abundantly line the limbs of the oaks. Additional features include a 14-acre orange grove, a remnant of a once-active citrus industry; restored wetland marshes, which have become a haven for a variety of migratory and resident birds; several man-made ponds and canals; and, an active bird roost/rookery. The site is also a refuge for butterflies and a variety of mammals, including foxes and bobcats.



More information on this park can be found at broward.org/Parks

Southeast Regional Envirothon



The Southeast Regional Envirothon is an annual competition in which high school teams demonstrate their knowledge of environmental science and natural resource management. The competition is centered on five universal testing categories: Aquatic, Ecology, Forestry, Soil & Land Use, Wildlife and a Current Issue topic that changes every year. Winners from the regional competition advance to the Florida Envirothon, and then the state winner advances to the international event, North American NCF

Envirothon, that includes the U.S.A., Canada and China. All three levels have cash awards and other prizes. Visit Eco-tan.org for more information about participating in the next regional Envirothon on February 15, 2023.



**ADAM
ROBERTI**
KEYNOTE SPEAKER

Adam Roberti serves as executive director of the Xavier Cortada Foundation. In this role, Roberti works with artist Xavier Cortada to engage, educate, and empower residents across South Florida through Cortada's large-scale, socially engaged eco-art projects such as The Underwater, Plant(T), and Endangered World.

Through these ongoing public art interventions, Roberti leads the foundation in partnering with local schools, universities, museums, businesses, and Miami-Dade County's Office of Resilience, Parks Department and Public Library System to help thousands of residents discover their vulnerability to, and plan for a

future with, the current climate and ecological crises.

Roberti received a Bachelors in Ecosystem Science & Policy and a Masters of Environment, Culture, and Media from the University of Miami, where he serves on an interdisciplinary research team focused on climate migration and retreat. Roberti has also shared his expertise through speaking engagements with the National Wildlife Federation, the Everglades Foundation, and multiple universities.

The environmental justice advocate was born and raised in Hollywood, Florida. A lifelong vegan, he enjoys scuba diving, practicing meditation, and playing beach volleyball.



Educators

Grisel Berrios (Walter C Young Middle School)

Judy Bremner (Sawgrass Springs Middle School)

Kelly De Varona (Davie Elementary School)

Francisco Gonzalez (Silver Lakes Middle School)

Richard Lamarre (Miramar High School)

Nancy Lovera (Cross Creek)

Peggy Morgan (Floranada Elementary School)

Elizabeth Norrell (Griffin Elementary School)

Jill Putney (Tradewinds Elementary School)

Students

Khloe Bailey (Driftwood Middle School)

Khushi Desai (Deerfield Beach High School)

Jalayah Dixon (Challenger Elementary School)

Robert Donahue (Central Park Elementary School)

Hannah Hugh-Sam (Walter C Young Middle School)

Shrishon Kumarasri (Miramar High School)

Alana Ojeda (Park Springs Elementary School)

Lyndan Williams (Walter C Young Middle School)

Non-Instructional Staff

Jaqueline Sanchez (Griffin Elementary School)

Custodial Staff

Michael Jones (Park Springs Elementary School)

Daniel Skula (Central Park Elementary School)

Miguel Rodriguez (Walter C Young Middle School)

Schools

Central Park Elementary – Categories 3, 4, 6

Challenger Elementary – Category 3

Cross Creek School – Category 1

Dave Thomas – All Categories

Davie Elementary – Category 1

Floranada Elementary – Categories 1, 3, 4, 5, 6

Lauderdale Lakes Middle – Categories 1, 6

Manatee Bay Elementary – Category 6

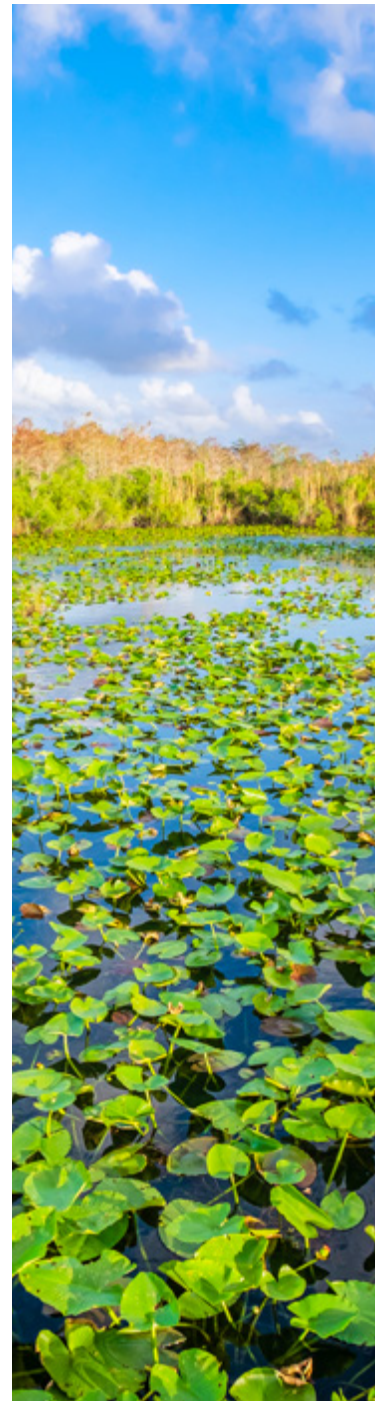
Miramar High – All Categories

Park Springs Elementary – Category 1

Sawgrass Springs Middle – Category 1

Silver Shores Elementary – Categories 1, 2, 6

Walter C Young Middle – All Categories



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Flamingo Gardens 954-473-2955 **BROWARD COUNTY**
 Flamingogardens.org **FLORIDA**
 3750 S Flamingo Rd, Davie, FL *Cultural Division*
 Funding for this organization is provided in part by the Broward County Board of County Commissioners as recommended by the Broward Cultural Council.



Eco-Schools USA
 www.eco-schoolsusa.org

SCHOOLYARD HABITATS

National Wildlife Federation Salutes the Broward P₃ Eco-Challenge Honorees!

NWF applauds the efforts of Broward County schools, administrators and volunteers to carry out green initiatives through environmental stewardship.

For more information on how NWF's Eco-Schools USA program can help you reach your sustainability goals, please visit www.nwf.org/eco-schoolsusa

Credit: nwa/na/16

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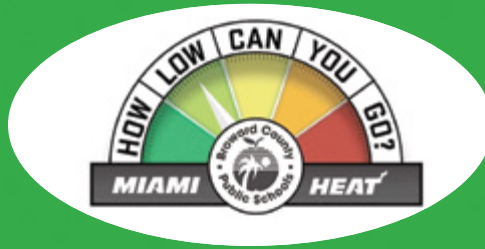
South Florida Audubon Society is proud to be a sponsor of the

P₃ Eco-Challenge

We continue to support conservation, sustainability, environmental education and provide effective advocacy for the citizens of Broward County. It is our partnerships that make us strong and effective in the community!

Congratulations!





Miami HEAT Teams Up with Schools to Reduce Energy Consumption via “How Low Can You Go?” Initiative

Congratulations to the 9th Annual How Low Can You Go Challenge Winners!

These schools lead the way for the state of Florida in reducing CO₂ and conserving water. There were 45 schools that registered for the 2021/2022 9th Annual Miami Heat “How Low Can You Go?” challenge. All schools reduced their kilowatt consumption by a total of 1,681,851 kilowatt hours over the time from November–March compared to 2019–20, resulting in a savings of \$151,367. The eight-year total of reduced kilowatt hours amounts to over 15.5 million kWh saving Broward, Miami-Dade, and Palm Beach school districts, \$1,031,216 and eliminates over 24 million pounds of CO₂ emissions. The water reduction initiative, in its 5th year, reduced consumption this year by 2,288,974 million gallons.

Thanks to all of the participating schools in this year’s Annual “How Low Can You Go?” Challenge! The winners were recognized at a Miami Heat game at the FTX Arena on April 9, 2022.

The winning schools in each category are:

Greatest percent of energy reduction



1st Place	Maplewood Elementary	43% Energy Reduction	191,816 kWh	\$17,263 Cost savings
2nd Place	Pinewood Elementary	29% Energy Reduction	159,186 kWh	\$14,326 Cost Savings
3rd Place	Morrow Elementary	25% Energy Reduction	109,186 kWh	\$9,826 Cost Savings

Greatest Energy Reduction:

Broward: Deerfield Beach Middle • 216,357 kWh • Cost Savings: \$19,472

Broward Schools Most Sustainable School:

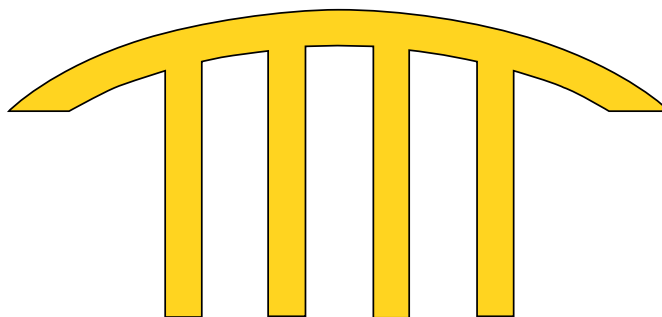
Walter C. Young Middle • 172,572 kWh • Cost Savings: \$15,531

Greatest Gallons of Water Saved Broward Schools:

Cypress Elementary • 65% Reduction • 703,000 gallons saved • Cost Savings: \$2,795.40



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Professional Development Opportunities

Everglades Literacy – K-5 (June 15, 2022) & 6 – 12 (June 16, 2022) 8 points each

The Everglades Curriculum teacher training is a hands-on, inquiry-based program aimed at improving the understanding of this rich topic through interdisciplinary techniques. The Everglades Literacy Conceptual Framework and K-12 Curriculum is a free set of lessons (three per grade level) that scaffold from K-12 to build complexity among topics. This program is aligned to the Florida Standards and will support positive student outcomes through the understanding of the nature of science, science language development and mathematics learning using the watershed in our own backyard.

Gardening for Nutrition – K-12 (June 21, 2022) 8 points

Participating teachers will be provided with a comprehensive curriculum supplement for teaching health, science, language arts, mathematics and social studies through a school garden. This curriculum is one of many resources from Florida Agriculture in the Classroom that will be used and implemented to connect edible gardening with interdisciplinary instruction in the K-12 classroom

SciStarter Canvas LTI – K-12 (June 22, 2022) 8 points

Participants will utilize the SciStarter Broward Portal for Problem/Project - based Learning (PBL). SciStarter connects students

to citizen science projects, citizen scientists, and resources. The Technology-integrated Project Builder is data-driven and provides opportunities for real-world science applications for students. This workshop is a component of the district's Reimagine Middle School initiative.

STEMming Up the Garden – K-12 (June 23, 2022) 8 points

In this Florida Agriculture in the Classroom, Inc. (FAITC) project-based workshop, participants will learn about nutrients and environmental factors that contribute to plant growth, which prevent communities from gardening, and how to integrate garden standards into their curriculum.

NatureScape 1-Day - K-12 (June 23, 2022) 8 points

Participants will learn to implement the NatureScape initiative, how to achieve Schoolyard Habitat certification through the National Wildlife Federation, strategies for teaching students the importance of water conservation, urban ecology, and environmental stewardship through fun, cross-curricular environmental activities that enhance the current science and math curriculum

Broward County Habitat Steward Training - K-12 (June 27 – July 1, 2022) 36 points

Participants will learn to implement the NatureScape initiative, achieve Schoolyard Habitat certification through the

NWF and strategies for teaching water conservation, urban ecology, and environmental stewardship. The five-day course offers cross-curricular environmental activities that enhance the current science, literacy and math curriculum. Each day of this professional development will take place at a different Broward County Park location, giving the participants a chance to see the many habitats and natural resources in Broward County.

For these workshops, please register through Learning Across Broward (LAB).

Congratulations to 2022 Emerald Award Winner

Driftwood Middle Students and Ms. Linda Gancintano Legacy Award Schoolyard Habitat®





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Congratulations
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Winners and Participants!

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STEM+CS QUARTERLY CHALLENGES



Dr. Lisa Milenkovic, Supervisor * BrowardSTEM@Browardschools.com * www.browardschools.com/stem

Are YOU ready for a CHALLENGE?! These challenges will inspire you and get those creative thoughts flowing. Each quarter we will present new challenges in various areas that may have prizes attached. Complete one challenge a quarter, or try them all. The only limit is what you place in it.

Participation Requirements

There are two categories of challenges provided here: STEM + Computer Science and by outside providers.

1. STEM + CS Challenges:

By participating in any of the STEM+CS challenges, you confirm that:

- You are a student at an elementary, middle, or high school Broward County Public Schools, Florida.
- No charter or private school participants unless specified.
- You are a student that is completing the challenge and this is your original work.
- You will submit the challenge using the method indicated on the challenge page.

If there are issues with the submission process, please email us at BrowardSTEM@Browardschools.com.

You will submit your original work on time. No late submissions will be taken.

2. Outside Provider Challenges - these are listed here as resources. Please see each link for requirements.

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Yoga Session

The focus of this yoga program is to improve flexibility and strength by utilizing traditional stretching, balance, and yoga postures. Yoga is appropriate for most people, regardless of fitness levels. This is a great way to warm up before a run, bike ride, workout, gardening, or chores. Stay on your feet as you improve your flexibility. Sessions are appropriate for all grade levels.

For more information contact:
cathywhitts@gmail.com,
954-684-8413



Nutrition Education Session

Healthy Snacks for Kids

In this twenty-minute session students will work hands on with Cathy Whitt from Holy Cross Health as a healthy snack is created. Nutrition tips will be discussed as the students enjoy the snack that they made.

Space Recommendations:

Clean surface for the students to work.

What to expect:

A simple recipe will be sent prior to the session and ingredients must be approved.



BrowardSTEM Challenge: Recycling Rules Summer Video Challenge

A summer challenge in which students, individually or in a team, create videos that explain the district recycling rules for all categories of student and staff stakeholders: elementary, middle, high schools and district offices.

Access via the BrowardSTEM Quarterly Challenge open Canvas course:

<https://bit.ly/browardstemchallenges>

- Rules and timeline are on the challenges site.
- Prizes will be awarded.
- Winning videos will be incorporated into the start of school training and shared via social media.



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20th Annual Broward WATER MATTERS DAY TREE GIVEAWAY

Saturday May 21, 2022
Tree Tops Park, 3900 SW 100th Ave, Davie, FL 33328
9:00 a.m. - 2:30 p.m. - Registration for Trees Required

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Celebrating 20 Years of Water Conservation

- Open to Broward County residents
- Rain or shine
- View plant selections at watermatters.broward.org
- Limit **one** fruit tree per household
- Register at watermatters.broward.org
- Maximum **two** trees or shrubs per household
- Proof of registration required at park gate

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P₃ Eco-Challenge

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FIU

Arts, Sciences & Education



browardschools.com
BCPS Environmental Stewardship
browardschoolsgogreen.com



Natural Resources Division
broward.org/NaturalResources



Environmental
Conservation Organization
eco-tan.org