

Real-World Learning

**In the Fifth Grade at
Katz Hillel Day School
of Boca Raton**

Teacher: Jodi Deichman

Environmental Education Across the Curriculum: Developing Connected Thinkers For Our Global Future




Kohelet 3:19


**For in respect of the fate of man and the fate of beast,
they have one and the same fate; as the one dies so dies the other; all share
the same breath of life.**

Experiential Learning encourages students to make connections, take ownership of their own learning, educate others, and contribute through Tikkun Olam.


CONTENTS




1. Green Team: A Collaborative Effort by the Fifth Graders and Middle School Students, teachers, and parents to create the Palm Beach County Green Schools Portfolio, an evaluative compilation of "green" activities within the school, to be evaluated by the environmental community of Florida Atlantic University allowing our school to be awarded as a Palm Beach County Green School.



2. Algalita Ship 2 Shore Program: Students learn from and communicate with scientists in the Pacific Gyre (the Pacific Garbage Patch) by posting on a private webpage.




3. "Beneath the Waves Youth Making Ripples" Film Festival: Students create Cooperative Films on Ocean Conservation by using the latest software and online programs on their devices.




4. Field Trip - Gumbo Limbo Sea Turtle Rehabilitation Center and Nurdle (raw, plastic pellets used in manufacturing plastic items) Hunt on the Beach: Fosters Students' Awareness of Pollution in our Oceans.




5. Field Trip - Solid Waste Authority: Waste-to-Energy Plant and Recycling Center: How is Palm Beach County Helping to Repair our Earth?



6. Field Trip - Legoland Florida - Students create solar-powered lego cars when learning about reusable energy.



7. Native American Folk Tales: Students study and emulate Native American Folk Tales focusing on respecting the Earth in their own writing as part of the American History curriculum learning about the connection between the past and the present in protecting our Earth.



8. Environmental Book Club: Students choose a book with an environmental theme.

1. Green Team: Middle School and Fifth Grade students collaborate with teacher and parent volunteers to design and create portfolio for school's acceptance as a Palm Beach County Green School.

Portfolio is being submitted as a separate pdf document titled Green School Project.

Students discuss and analyze how green activities in different classes around the school apply in the rubric.

Students create committees to organize content gathered from teachers, parents, and administrators. Students face the challenge of acquiring content and organizing the information in a timely manner in order to meet the deadline.

Information is compiled; students produce and submit the portfolio to the Palm Beach County Green Schools website.

1. Responsibility: Fifth graders teaching younger students about greening the Earth.

Kohelet 1:4

One generation goes and another generation comes; but the earth remains forever.



- 2. Algalita Ship 2 Shore Program: Students learn from and communicate with scientists in the Pacific Gyre (the Pacific Garbage Patch) where they examine ocean water samples comparing the amount of plastic to plankton.

algalita.org

Ship-2-Shore Education Program
Algalita Marine Research and Education

MAP OF 2016 PARTICIPANTS

1. Make sure your school is represented on the map below! If you'd like to add a personal note to your location pin send your comment to anika@algalita.org.
2. Please introduce yourselves as a class, so that everyone on the blog can get to know eachother! Just leave a comment in the text box at the bottom of the page and press the blue button that says "Post Comment". Thanks!

← Hillel Day School

Affiliation
Hillel Day School

Address
21011 95th Ave. South Boca Raton, FL 33428

[View 2016 Participants in a larger map.](#)

ENTER 2016 EXPEDITION BLOG HERE

SHIP 2 SHORE

WELCOME ABOARD!

Join us aboard the Oceanographic Research Vessel Algalita as we work to expose the serious threats of marine plastic pollution along our 7-month expedition to the South Pacific Gyre. We encourage you to ask us questions and leave us comments along the way!

[LIVE RESEARCH BLOG](#)
[EXPEDITION OVERVIEW](#)
[VIEW THE VESSEL](#)
[MEET THE CREW](#)
[MAP OF PARTICIPANTS](#)

Where are we now?

2016 - 2017 South P...

3 Responses [Comment Feed](#)

Anika Ballent — [October 31, 2016 @ 4:38 pm](#) [Reply](#)

Hello Students! We are looking forward to sharing our adventures to the South Pacific and back with you over the next several months!

Ken Wheaton — [November 15, 2016 @ 8:57 pm](#) [Reply](#)

We are a class of second year students at Chuo University which is just outside Tokyo, Japan. There are 15 students in our class. We started studying marine pollution this past spring. We are just learning how severe the problem of plastic in our oceans is and we hope to learn more as we follow your voyage.

Jodi Deichman — [November 18, 2016 @ 11:04 am](#) [Reply](#)

(Your comment is awaiting moderation)

Hello! We are the fifth grade class from Katz Hillel Day School of Boca Raton! We are so excited to be a part of your expedition! We are currently using information that we have learned from the Algalita Foundation to create films for the Youth Making Ripples Film Festival. Our first question is how much trash have you found each day so far? Thank you!

3. "Beneath the Waves Youth Making Ripples" Film Festival: Student-created, Cooperative Films on Ocean Conservation

Students use problem-solving skills and inquiry-based learning in groups to research threats to the health of our oceans. Students then devise a plan for simulating and dramatizing these problems through film.

Some groups held contests in order to give a donation to the local sea turtle rehabilitation center as part of their films.

Youtube links to films provided on application.



4. Field Trip - Gumbo Limbo Sea Turtle Rehabilitation Center and Nurdle Hunt on the beach: Fosters Students' Awareness of Pollution in our Oceans and the Need for Tikkun Olam.



Nurdle Hunt: Students create grids to document location of nurdles (raw plastic pellets that have been washed away in the ocean from places as far away as China). These nurdles pose an extreme threat to ocean life as they are very small and can be confused with plankton and other small organisms that fish, birds, and turtles eat. Students also document the manufactured plastic found.

4. Field Trip - Gumbo Limbo Sea
Turtle Rehabilitation Center and
Nurdle Hunt on the Beach:
Fosters Students' Awareness of
Pollution in our Oceans and the
Need for Tikkun Olam.

Gumbolimbo.org

Coral Reef Connections:
Students are introduced to
the importance of coral reefs
to our oceans. In an outdoor laboratory
setting, students conduct data
collection and compare and contrast
ocean, intracoastal, and
tap water. This trip prepares the
students for the 6th grade trip to Sea Camp
in the Florida Keys.



5. Field Trip - Solid Waste Authority: Waste-to-Energy Plant and Recycling Center

How is Palm Beach County Helping to Repair Our Earth?

Culminating Project: Students write an essay answering the following prompt.
How is the Solid Waste Authority helping to protect and repair Palm Beach County?



Solid Waste Authority's State of the Art Education Center

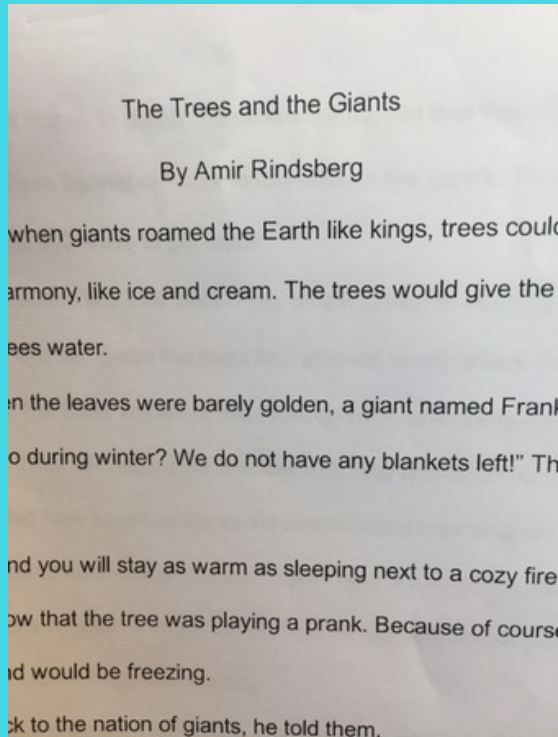
Students learn that all learning is
integrated! Connections are
everywhere!

One year a student group interviewed one of the
environmental educators at the SWA as part of their "Youth
Making Ripples" film.

6. Field Trip - Legoland Florida - Students
create solar -powered lego cars when learning
about reusable energy in the Lego learning
laboratory.



7. Native American Folk Tales: Students study and emulate Native American Folk Tales in their own writing as part of the American History curriculum learning about the connection between the past and the present in protecting our Earth.



A student's sample
is being submitted
separately.

"Treat the earth well. It
was not given to you by
your parents—it was
loaned to you by your
children."
Native American
proverb

8. Environmental Book Club: Students choose a book with an environmental theme.

Students choose a book by the author Carl Hiaasen to read on their own. The group meets after a month passes to lead discussions on the author's writing style, literary elements, and the environmental challenges within the book.

