

Connecting Communities at Lighthouse Point

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Background



The top arrow points to The Island School and the lower arrow points to Lighthouse Point. Education in the Bahamas is typically taught in a traditional, lectured-based classroom. This project's goal was to

create an experiential, interdisciplinary, and environmental field trip to match the benchmarks of the Bahamian National Curriculum. As a community ask, the group aimed to take as many South Eleutheran students to Lighthouse Point as possible. Historically, Lighthouse was an entry point for enslaved peoples brought to the Bahamas from West Africa. Most of the inhabitants of this island can trace their lineage through Lighthouse. However, a Cruise Line's purchase of Lighthouse Point was recently approved by the Bahamian government, which may restrict local access to Lighthouse.

The main objective of this project was to supplement the Bahamian National Curriculum with interdisciplinary and experiential learning. The venue we choose to employ these teachings was Lighthouse beach, a promontory located on the southern tip of Eleuthera.



Figure 2. Above, the tip of Lighthouse, the entry point for many enslaved peoples is shown.

The Cape Eleuthera Island School's mission

is: "To create meaningful relationships

through education and sustainability to

School outreach program does this by

responding to community asks. For

advocate living well in a place." The Island

example, Island School students this term

went to Deep Creek Primary School to read

with the students because it was asked for

by the school. Additionally, our field trips to

Learning Styles

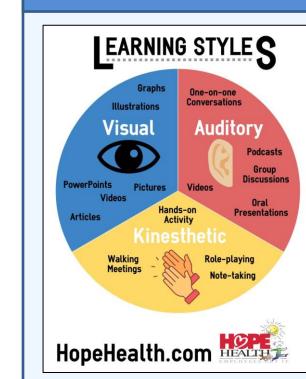


Figure 5.

Figure 5 shows the three main types of learning styles and the methods to teach these styles. We used this chart to create our lesson plans to teach at Lighthouse. While most classrooms mainly serve auditory learners, we designed our lessons to serve all learning styles.

Objectives



A student from Deep

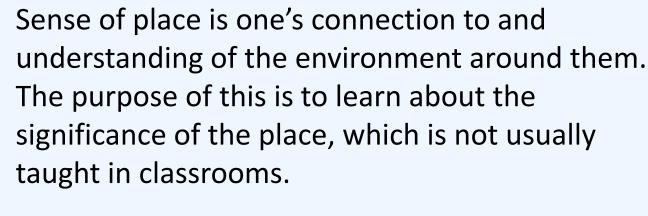


The Island School students above are teaching a lesson at Lighthouse Beach to a group from Tarpum Bay Primary School.

1. Using experiential learning

Experiential learning is when students can see they are learning right in front of them. The purpose of this is to target all types of learning

2. Deepening sense of place



3. Applying Interdisciplinary learning

Interdisciplinary learning is combining multiple subjects and teaching them together. In most classrooms, each subject is taught separately, however our lessons connect them together.

Methodology

- Most of the Bahamian National Curriculum is taught in a classroom, so we used environmental education and ran field trips at Lighthouse Point to test our hypothesis.
- During the field trips, we used experiential learning, sense of place, and interdisciplinary learning to teach the students about photosynthesis, the water cycle, and pollution. These three topics are all part of the Bahamian National Curriculum for grade 5.
- Each lesson was built to serve all types of learners



Students from Tarpum Bay Primary School performing a skit about photosynthesis.

The students participated in a skit about photosynthesis. This way, they were able to be a part of the **teaching process** as they were learning.



Figure 9. Students from Tarpum Bay Primary School learning about the water cycle.

The students learned a song about the water cycle so that they could remember the

steps clearly.



Figure 10. Deep Creek Primary School Students learning about pollution.

their everyday actions and

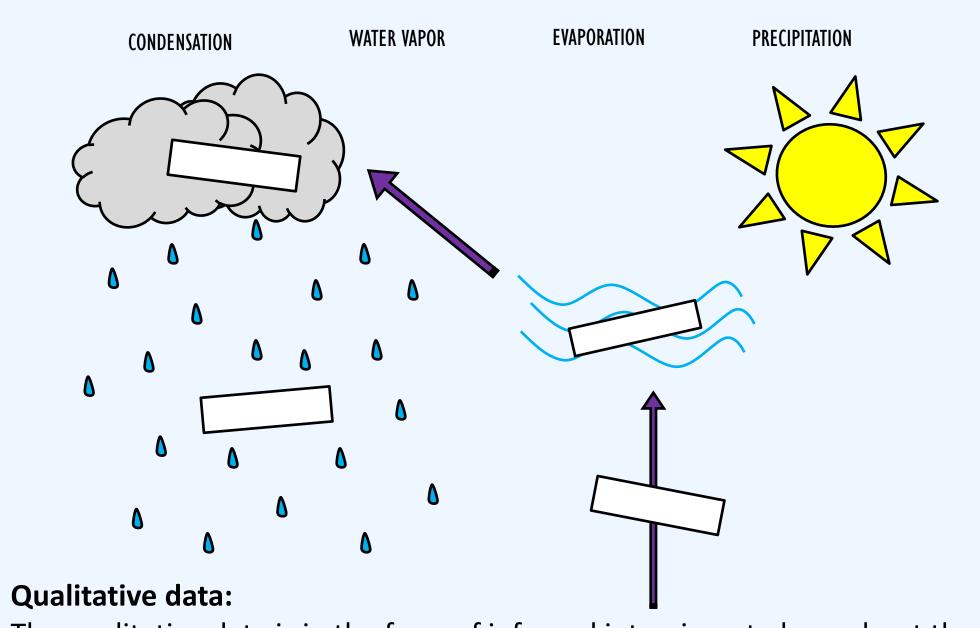
the environment.

The students found pollutants on the beach and recycled them in order to gain a deeper understanding between

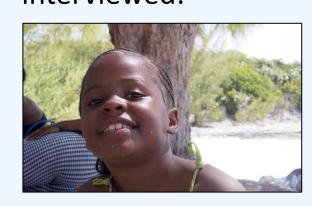
Data Collection

Quantitative data:

The quantitative data is in the form of identical written pre and post assessments given to the students directly before and after the three lessons. The assessments included questions from each of the three lessons. Below is the assessment for the water cycle:



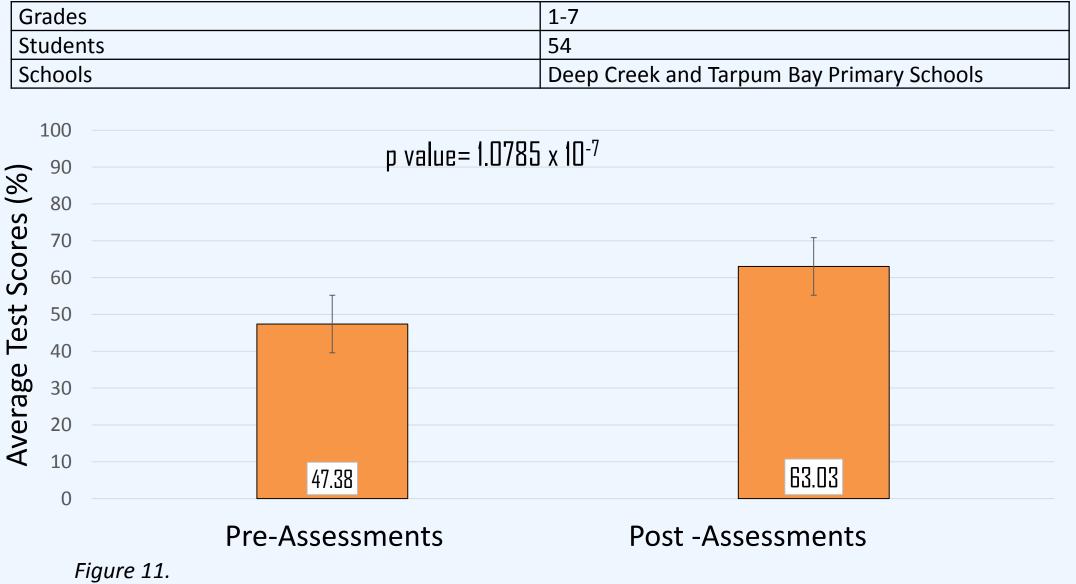
The qualitative data is in the form of informal interviews to hear about the students' experience at Lighthouse Point. Below are a few of the students we interviewed:







Results



Overall pre- assessment and post-assessment scores

This shows that the post- assessment scores were on average higher than the preassessment scores. The p-value, shown on the upper right hand corner, is statistically significant because it is less than 0.5. This shows that there is a real difference between our two data sets, and the improvement from the preassessments to the post-assessments is not due to chance.

Though the p-value was significant, the standard deviation also increased in the post assessment data set (the standard deviation of the pre-assessment scores was 28.3, while the standard deviation of the post assessment scores was 29.9).

Many external variables could have led to the difference between standard deviations of the pre/post-assessments. For example, not everyone is being impacted by the lesson in the same way because of different learning styles. The general room for error throughout our data includes the time given to complete the test, the difference of ages of the students, and different schools that the kids attended.

Discussion



Over multiple semesters, CEIS outreach will be creating a field guide, talking more deeply about the programming that we are doing. This will benefit other groups who may want to model this style of teaching.

Island school will be teaming up with the Bahamas National Trust to take this type of experiential programing national.

The types of trips that we have conducted are not specific to Lighthouse Point, though the environment was a large part of the specific lessons. This means that these trips could be conducted at other sites in the future to accommodate different subject matters or if trips to Lighthouse are not able to occur due to

The government has approved the purchase of Lighthouse to a cruise line company, so the next step is to conduct an environmental impact assessment to acquire permitting. If the construction of the cruise port goes through, the future of the access to the beaches and the of our ability to take field trips to Lighthouse Point would be unknown. However, we will continue to run trips until our access is cut off.

Acknowledgements

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Figure 12. The photo above shows the Tarpum Bay Primary School students, The Island School students, and the Lighthouse Research group advisors at Lighthouse Beach.

Literature Cited

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Battle-Baptiste W., 2017, Cruise Ships, Community and Collective Memory at Millar's Plantation, Eleuthera, Bahamas, Society for

Historical Archaeology

Orr, D., Earth in Mind: On Education, Environment, and the Human Prospect

Eyler J., *The Power of Experiential Education*

Lighthouse were a community ask and align with the benchmarks of the Bahamian An Island School student reads National Curriculum. with a student from the Open



Learning Center, an after-school

Figure 3.

program.

and 6th grade Eleutheran students in a hands on, experiential way while developing their sense of place in a culturally rich piece of their community."

An Island School Student teaches students from Tarpum Bay Primary School about pollution at Lighthouse Beach.

Purpose

CEIS Outreach

