FRIENDS of the ENVIRONMENT
ABACO, BAHAMAS

BEP FOUNDATION
Bahamian Environment Protection

Friends of the Environment Science Fair
Thursday November 10th 2022

New Vision Ministries, 10:00AM-2:00PM

Highlighting Winners: VIRTUAL Science Fair (2021)

Lower Primary
1st Place: James A. Pinder Primary
2nd Place: Cooper's Town Primary
3rd Place: Cooper's Town Primary

Lower High
1st Place: Long Bay School
2nd Place: Hope Town (home school)

Upper Primary
1st Place: Fox Town Primary
2nd Place: Hope Town Primary
3rd Place: Cooper's Town Primary

Upper High
1st Place: Patrick J. Bethel High
2nd Place: Patrick J. Bethel High
3rd Place: Hope Town (home school)

Overview: Ecosystem Services of Coastal Ecosystems Science Fair 2022

Projects should show evidence of research into a topic surrounding Ecosystem Services of Coastal Ecosystems. “Coastal Ecosystems” include sandy beaches, rocky shores, mangroves, sand flats, seagrass beds and coral reefs. Students can choose to do a broad project on **all** coastal ecosystems, or choose **one** specific ecosystem to highlight. “Ecosystem Services” refers to a positive benefit that nature provides to humans; in this case, anything that the coastal ecosystem that you have chosen provides us with. Using a non-coastal ecosystem as an example, pine forests provide raw material for building, and green spaces for public enjoyment and tourism activities like bird-watching.

1) Projects must be based on scientific investigations, an experiment or surveys, including environmental and/or social perspectives. (** All high school projects **must** include the scientific method. If high schools do not use the scientific method, the project will be placed in the Non-competitive/Display category.)

2) All information outlining how the project was done, key findings and conclusions, should be included in a **poster presentation** for **lower primary, upper primary and lower high.** All information outlining how the project was done, key findings and conclusions, should be included in a **powerpoint presentation for upper high ONLY***.

***New component for UPPER HIGH SCHOOL TEAMS : GRADES 10-12 ONLY**
This year, instead of setting up a table with a display board, we are asking upper high school students (grades 10-12 ONLY) to prepare a powerpoint slideshow to explain their projects on stage in front of the audience. Students may include props along with the slideshow to help to explain their projects. Presentations should be no longer than 10 minutes.

3) All teams should also use their research to inform an action component that demonstrates student participation in solutions, behavior change, or community outreach for increasing public understanding of the services provided by the chosen ecosystem(s). Proof or samples of the action component should be provided (photo copies, video, photographs, etc).

4) All projects must include a list of sources/references for any photos, diagrams, definitions etc. that are borrowed for their project.

Please register here: https://forms.gle/nckFbih8ddcDK6cdA

Judging criteria: Science Fair 2022

There are four components of each project to be judged:

1. **Originality (Score 1- 5 points):**
   Projects should have original information and not just copy and paste from other sources not made by schools (e.g. brochures, internet). Students should be able to demonstrate an original thought process.

2. **Content (Score 1- 10 points):**
   Information should be consistent with chosen topic and relate to overall theme. *For high schools:* Headings should relate to the scientific method (abstract, introduction, hypothesis, methods, discussion/conclusion including sources of error and methods for improvement). *For primary schools:* Headings should reflect what you did, how you did it, and what you found out (do not need to use those phrases verbatim).

3. **Presentation (Score 1- 10 points) for lower primary, upper primary and lower high ONLY:**
   Project should be well presented. If hand written, it should be legible. Projects should be neat and tidy, and follow a logical order. Projects which are eye-catching will score higher.

3.1 Presentation (Score 1- 10 points) **for upper high ONLY:**
Students should have an organized powerpoint presentation that is easy to follow, easy to read and eye-catching. Presenters should speak clearly when presenting and must not exceed the limit of 10 minutes.

4. **Student Explanation (Score 1- 5 points):**
   Students should be able to answer questions posed to them by judges and display that they have an overall knowledge of the project.

**In the case of a tie, the project scoring higher on student explanation will be the winner.*

School Categories for Project Entries*

There are four categories for each school:

1. Lower Primary (Grades 1-3)
2. Upper Primary (Grades 4-6)
3. Lower High (Grades 7-9)
4. Upper High (Grades 10-12)

**You are allowed (1) entry per category from each school.*

Science Trivia

We will hold a Science Trivia game during the judges deliberations. Please select **four** students from your school to represent - two from primary school (grades 1-6) and two from high school (grades 7-12).

Rules

- Each school is allowed one entry per school category (i.e., one for lower primary, one for upper primary, etc.). Additional entries will be placed in the display category and will not be judged.
- Prizes will be awarded to the **winning school** and not to individual students.

- Schools must complete entry forms by **Tuesday November 1st 2022.**

Helpful Terms and links for the theme

- Ecosystem - a group of living organisms (plants, animals) interacting with each other and with their physical environment
- Coastal Ecosystem - ecosystems located at or near the coast, where land meets the sea
- Ecosystem Services - a positive benefit to humans from a natural area
- Ocean & Climate Platform: https://ocean-climate.org/en/marine-and-coastal-ecosystem-services/
- Mapping Ocean Wealth: https://oceanwealth.org/ecosystem-services/
- FRIENDS Educational Resources: https://www.friendsoftheenvironment.org/for-teachers