Criteria for School project: Best Environmental Science Experiment

ENVIRONMENTAL
EXCELLENCE
SCHOOL AWARD

Increase the environmental knowledge (10 points)

- A full report must be done before working on the project. This report should be included when submitting the project and should be between 1-3 pages. The purpose of this report is to gain knowledge about the theme of the competition.
- Teachers must conduct presentations and class activities to educate the students about the related topic.
- Taking the students to the school's library and making sure they read at least 1 environmental book or watch an environmental documentary during the school year.

The project (25 points)

Grade 3 -5: Best Environmental Science Experiment:
Theme: Preservation of marine life and water resources
Environmental education is better instilled at a young age.
The teachers can share their environmental knowledge by teaching the students how to conduct environmental science experiments.

General guidelines:

- The experiments must be done by the students, but with the help of the teachers.
- The experiment should address a problem and solution.
- Students will have to conduct the experiment live in front of the judging committee when the school visits occur.
- A total of 4 – 5 experiments must be done by the group of students.

Science Experiment Criteria						
Criteria	5	4	3	2	1	Score
Items used	All the items used for the experiment are re-used, economical, safe, and environmentally friendly	Some items used for the experiment are re-used, economical, safe, and environmentally friendly	A few items used for the experiment are re-used, but they are expensive and required a budget	The items used for the experiment are not re-used, but they are economical	All the items used for the experiment are not re-used, not economical, not safe, and or environmentally friendly	
Assembly	The materials of the experiment are in excellent condition and it's well assembled.	The materials of the experiment are in a good condition and is well assembled	The materials of the experiment are in a somewhat good condition and is not very well assembled	The materials of the experiment are in a bad condition and is not well assembled	The materials of the experiment are in a very bad condition and is not well assembled	
Purpose of the experiment	The experiment offers a long term solution to preserve marine life and water resources	The experiment offers an immediate solution to preserve marine life and water resources	The experiment offers a short term solution to preserve marine life and water resources	The experiment offers somewhat of an acceptable solution to preserve marine life and water resources	The experiment does not offer a solution to preserve marine life and water resources	
Impact of the experiment	The experiment has a powerful impact on the students	The experiment has a great impact on the students	The experiment has somewhat of a good impact on the students	The experiment has a short term impact on the students during the experiment only	The experiment doesn't have an impact on the students at all	
Understanding the concept	The students clearly understand the concept of the experiment	The students understand the concept of the experiment	The students kind of understand the concept of the experiment	The students are confused regarding the concept of the experiment	The students don't understand the concept of the experiment at all	
Total						**25/**

Collecting data (15 points)

- Interviewing the students before starting the project, and once the project is finished as well, in order to notice the change in behaviour and attitude. (clips of the interviews should be videotaped)
- Conducting online surveys (inside and outside the school) before starting the project, and once the project is finished as well, in order to compare and see the difference and the impact of the project on the students and the community.
- Analysing the survey and documenting the outcome and results of the surveys. (In the form of graphs)
- The survey must be answered by a minimum of 20 people in order to get accurate results.
- Creating informative brochures and distributing them to the students in the school. (The content of the brochure should be created by the teachers and students)

Documentation (10 points)

- Documentation should be in the form of PDF, pictures and videos.
- The video documentation should be in the form of one video that includes short clips of the experiments carried out, and the entire video should not be more than 10 minutes.
- All pictures must have clear captions.
- Create a weekly journal with captioned pictures/videos of the activities carried out throughout each week

Delivering the message (15 points)

- Awareness sessions should be done inside the school.
- The experiment should be displayed to the entire school. (For example: Gathering the students in the school theatre and showing them the experiment and the concept behind it)
- Campaigns and environmental workshops.
- Share the project's idea through social networking sites, and you can choose a medium

for spreading the message. (Include the links).

- The social media accounts must be active and posting on them must be on a regular basis, even after the submission of the project.

Creativity (5 points)

- Creativity is required through all phases of the project. Students are expected to demonstrate creativity while conducting their experiments, spreading the message and presenting their project.
- The implemented ideas should be original/enhanced.
- Assure the variety of the ideas and avoid repetition.

The Project's Influence on the Students (10 points)

- The influence and impact the project had on the students should be mentioned.
- The project should exhibit how students can benefit from the project and what it can add to the student's attitude in school.
- The project should have a long-term influence on the students through changing their behaviour and attitude.

Student's Participation in the Project (10 points)

- Teachers are the main planners of the project, but the students are the ones conducting the experiments, with the help of the teachers.
- An eco-club must be created, and the members will be the ones conducting the experiments.
- The members of the eco-club should be between 7 – 15 students.
- The students should be empowered and encouraged to lead some phases of the project.

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