

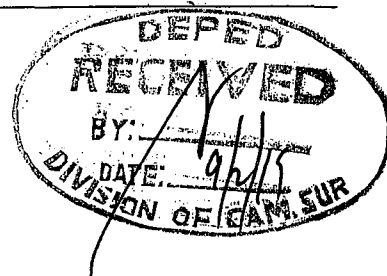


Republic of the Philippines  
DEPARTMENT OF EDUCATION  
Region V  
**DIVISION OF CAMARINES SUR**  
*Freedom Sports Complex, San Jose, Pili, Camarines Sur*



**DIVISION MEMORANDUM**

No. 314, s. 2019



**TO :** Assistant Schools Division Superintendents  
Chiefs, CID & SGOD  
Education Program Supervisors/Division Coordinators  
Public Schools District Supervisors (Elem./Sec.)  
Heads of Public & Private Elementary & Secondary Schools

**FROM :** **SUSAN S. COLLANO, CESO VI**  
Assistant Schools Division Superintendent  
Officer-In-Charge  
Office of the Schools Division Superintendent

**SUBJECT:** **2019 DIVISION SCIENCE FESTIVAL**

**DATE :** August 23, 2019

1. Cognizant to the end goal of K-12 Science Curriculum to develop scientifically, technologically, and environmentally-literate learners, the DepEd, Division of Camarines Sur will hold the **2019 Division Science Festival on September 25-27, 2019** hosted by **San Juan National High School** in coordination with **San Juan Elementary School** and **Libmanan North Central School, Libmanan, Camarines Sur** with the theme: **"SCIENCE FOR THE PEOPLE: Fostering Innovations in Technologies, Projects and Researches."**

2. This activity aims to provide opportunities for teachers and learners to discover, develop, harness, enhance and showcase their talents through the exhibition of their products and performances and demonstrate love for nature and the environment.

3. Authorized to attend are the best two (2) district winners in public and private elementary and secondary schools in the events to be contested, respective coaches/trainers, EPS-Science, Division Science Coordinator, Board of Judges, ASSECCS Officers, working committees, elementary and secondary District School Heads In-Charge and District Science Coordinators, YES-O Coordinators, Science Department Heads/Coordinators, and teachers handling Science classes.

4. The district representatives are tasked to collect the list of participants to be turned over to the **EPS-1, Science** not later than **September 13, 2019** using the format below:

Event	Contestant/s	Coach/Trainer	School Head	School	Category (Public or Private)	District

5. The following timelines below must be strictly observed by all concerned:

Date	Activities	In-Charge
September 2-6, 2019	Planning Conference/ Preparing contestants	District In-SH & Science Coordinator
September 9-18, 2019	District Science Festival	District SH In-Charge/Science Coordinators (Elem/Sec) -School Science & YES-O Coordinators (Elem/Sec)
September 19-20, 2019	Submission of List of Participants to EPS Esmabe	District Science Coordinators (Elem/Sec)
September 25-27	Division Science Festival	EPS-Science, Division Science Coordinator, District SHs- In-Charge/Science Coordinators, Science & YES-O Coordinators, Science Teachers, Students

6. The District Science School Heads In-Charge, District Science Coordinators and Congressional District Representatives in coordination with their PSDS are authorized to call for a conference to all concerned relative to the conduct of the activity. ASSECCS Officers are likewise authorized to provide assistance in their respective district. Travel allowance and other incidental expenses in attending the district Science conference and competition can be charged against School MOOE and other funds sources subject to the usual auditing and accounting rules and regulations.

7. A conference of EPS-1, Science, Division Science Coordinator, Assistant Principal of San Juan NHS (host school), and ASSECCS Officers is scheduled on August 30, 2019 from 8 00 A.M.-5:00 P.M. at Pili NHS, Pawili, Pili, Camarines Sur to finalize the conduct of the activity
8. A minimal fee of **One Hundred Pesos (Php 100.00)** shall be charged each participant to cover expenses for supplies and materials, food, and other incidental expenses relative to the activity chargeable against Science/YES-O Clubs, PTA funds and other fund sources to be managed by the Association of Science Secondary and Elementary Coordinators of Camarines Sur (ASSECCS), payable to **MS. BERNARDITA LAGUMBAY, ASSECCS Treasurer**. Transportation, meals and other incidental expenses of teaching and non-teaching participants can be charged against school MOOE/local funds, STE, SSES, SEF, PTA, YES-O and other fund sources subject to the usual auditing and accounting rules and regulations.
9. The ASSECCS Officers and members of the Working Committees are advised to report to the venue on **Day 0, September 24, 2019** to facilitate registration and accommodation of participants and prepare the venue.
10. All District Science Coordinators are advised to coordinate with San Juan Elementary School, Libmanan North Central School and Fundado Elementary School for room accommodation in the earliest possible time. Participants can already report to the venue a day before the activity.
11. **Specific Guidelines of the Activities and Mechanics of the Contests** are enclosed in this Memorandum.
12. Immediate and widest dissemination of this **Memorandum** is desired.

I. GUIDELINES FOR SCIENCE FAIR

- 1. This activity allows deserving students from public and private elementary and secondary schools and ALS to join, participate and compete.
- 2. Each congressional district is assigned a color in case the participants opt to wear T-Shirts during the activity:

1<sup>st</sup> District – mint green

2<sup>nd</sup> District – white

3<sup>rd</sup> District – yellow

4<sup>th</sup> District – light blue

5<sup>th</sup> District – light pink

ASSECCS Officers - peach
- 3. Printing of T-Shirts shall have a uniform print design with Science and YES-O logos and managed by Mr. **Rodolfo Pempeña II** of San Rafael National School. For inquiries, you can contact him at **09212810346**.

A. SCIENCE MAGIC SHOW (Elementary (Grades 4-6), Junior High School & Senior High School, ALS)

MECHANICS

- 1. Each category shall have a team composed of five (5) members who can come up with five to seven (5-7) minute magic/trick presentation covering involving concepts in any of the Science disciplines (General Science, Biology, Chemistry, Physics, and Earth and Space).
- 2. A brief explanation of related Science concepts/principles demonstrated and time for the entrance and exit are included in the 7-minute presentation.
- 3. A deduction of two (2) points from the total score obtained by the team for every minute extension will be strictly enforced.
- 4. The decision of the Board of Judges is final and irrevocable.
- 5. Only the best two (2) team winners during the District Selection, from each category shall participate in the Division level competition.
- 6. During the Division competition, each congressional district shall have an elimination round to select the best two (2) teams to serve as the official representatives of the congressional district. Winners and non-winners in this round will receive division certificate of recognition.

CRITERIA FOR JUDGING

Content of Presentation (Relevance of magic/trick to any concept in Science	-	30%
Teamwork and Workmanship (Showmanship/camaraderie demonstrated by the team. If possible, all members of the team must have a say about the magic/trick presentation.)	-	25%
Creativity	-	20%
Clarity and Seamlessness of the Presentation	-	25%
TOTAL	=	100%

B. SCIENCE SMART KID (Kindergarten- Grade 3)

MECHANICS

- 1. There should only be one contestant chosen from K-Grade 3 pupils.
- 2. Each kid contestant shall present a Science talent for 3 to 5 minutes and must be able to demonstrate exceptional wit/intelligence/cleverness/brilliance/alertness during the judges' interview and Q&A part.
- 3. Props are allowed but no props-men/back-ups will be permitted during the actual presentation.
- 4. The decision of the Board of Judges is final and irrevocable.
- 5. Only the best two (2) team winners during the District Selection, from each category shall participate in the Division level competition.
- 6. During the Division competition, each congressional district shall have an elimination round to select the best two (2) teams to serve as the official representatives of the congressional district. Winners and non-winners in this round will receive division certificate of recognition.

CRITERIA FOR JUDGING

Science Talent	- 50%
Interview with Q & A	- 40%
Overall Impact	- 10%
TOTAL	100%

C. SCIENCE QUIZ (All grade levels from Grade 3 to 12)

MECHANICS

- 1. This is a paper and pencil test. Contestants are advised to bring their own pencil.
- 2. Only the best two (2) contestants during the District Selection will compete in the division level.
- 3. There will fifteen (15) easy questions, ten (10) average questions, and five (5) difficult questions for the elementary. The secondary on the other hand, will have twenty (20) easy questions, fifteen (15) average questions, and ten (10) difficult questions.
- 4. All elementary and secondary District Science Coordinators shall submit online at [emilyesmabe@gmail.com](mailto:emilyesmabe@gmail.com) not later than **September 9, 2019** three (3) easy questions, two (2) average questions, and one (1) difficult question. Questions for Grade 3 shall be written in Mother Tongue.
- 5. The EPS in Science shall validate and determine whether the questions submitted by the District Science Coordinators can be included in Division Quiz Bee questionnaire.
- 6. Each question must be answered within a minute and two (2) minutes for computational questions.
- 7. After the allotted time, the Answer Sheets will be checked by the Quiz Bee Team composed of five (5) members.
- 8. After checking, the Quiz Bee Team shall prepare the result following this format:

Subject Level	Name of Contestant	School/District	Name of Coach	Score	Rank

D. ON-THE-SPOT SCIENCE COMPETITION

Component Area	Science Technology and Mathematics		
Grade Level	(Junior to Senior High School enrolled in public and private schools and ALS)		
Event Package	On the S.Pp.O.T. (Science Processes and Practices on-Site Test)		
No. of Contestants	Two (2)		
Time Allotment	Six (6) Hours		
Description	The competition enables learners to apply science and mathematics thinking skills to solve problems that have local, national and global impact. It allows the contestants to become problem solvers by addressing social, scientific and environmental issues through the application of the 21 <sup>st</sup> century skills.		
Criteria for Assessment	Criteria (Part I)		Percentage
	Discussion/Arguments (Based on scientific, technological and other valid assumptions. Feasibility of the proposed assumptions.)		60%
	Clarity of Presentation (Ability to communicate effectively the solutions)		30%
	Evidence of effective collaboration		10%
	TOTAL		100%
	Criteria (Part II)		
	Organization/ Discussion/Arguments (Based on scientific, technological and other valid assumptions. Feasibility of the proposed assumptions.)		50%
	Relevance of the Data Used		20%
	Clarity of Presentation		
	- Written		15%
	- Oral		10%
	Evidence of effective collaboration		5%
	TOTAL		100%

A. Contest Mechanics

General Guidelines

Part I – One-Minute Presentation

- 1. The first part of the contest is the One-Minute presentation of the project proposal where the teams shall develop and present their proposal to the panel of judges of their solutions about a real world problem/scenario of local and global importance. The situation containing the problem shall be given on-site on the day of the competition.
- 2. The contestants are given two (2) hours to conceptualize and prepare their slides for presentation. All presentations shall not bear any markings that will identify their districts. The contestants may use the internet and other printed resources in developing their presentation, however, the teams are not allowed to confer with their coaches while the contest is on-going. Any form of communication between the contestants and other parties (coaches, parents, classmates, teachers, etc.) shall warrant automatic disqualification.

3. The presentation may consist of the following:
  - a. Detail key features of the proposed solutions.
  - b. Challenges to resolve in order to effectively implement the proposed solution.
  - c. Proposed solution may be similar or different from existing practices, technologies and solutions. If so, the presentation shall include on how the proposed solution would build up from existing practice, technology and solutions.
4. At the end of the two (2) hours, all presentations shall be submitted to the assigned facilitators.
5. During the presentation, each team shall be given one minute to present. The time shall start when the contestant starts to speak.
6. Draw lots shall be done to determine the order of presentation. While one team is presenting, all the other teams shall stay at the holding room.
7. A timer holding a cardboard that indicating the time shall stand to show the public and the contestants the time remaining for their presentation.
8. A buzzer shall signal that the time for presentation is up and the contestant shall immediately stop presenting.
9. After the deliberation of the members of the panel of judges, the top eight (8) teams shall be determined and announced to the public. The top eight teams shall move to the final round. The finalists shall not be allowed to leave the contest venue during the break. They can take their meals and snacks in the contest venue. (Coaches shall ensure that contestants have food brought along during the contest.)

#### **Part II-Developing the Proposed Solution**

10. The Final Round of the competition shall include developing the written description of the proposed solution and the oral presentation. Similar to Part I, the teams are allowed to use the internet and other resources. There shall also be no markings that will identify the district of the contestants. They shall develop and print their proposals within four (4) hours. The scores in the preliminary round shall have no bearing in the final round.
11. The proposed solution shall have the following components:
  - a. Title
  - b. Summary (100-200 words)
  - c. Background and Problem (200-300 words)
    - Describe the challenges and how the proposed solution address the problem presented
    - Scientific Principles and Technology applicable to the resolution of the problem
    - Beneficiaries
  - d. Proposed Solution to the Problem Presented (300-500 words)
    - Methods/Details of the proposed solution including Cost analysis
    - Include illustrations, figures and charts
  - e. References

### **E. ON-THE-SPOT SCIENCE ACTION RESEARCH PROPOSAL WRITING**

#### **MECHANICS**

1. The Science Action Research Proposal Writing is open to all public and private elementary and secondary teachers handling Science classes.
2. The SARP Writing shall be a team composed of 3 members from any grade level. The team is advised to bring their own laptop, broadband (WiFi), and extension wire.
3. The contestants are given four (4) hours to conceptualize and prepare their proposal. All presentations shall not bear any markings that will identify their districts. The contestants may use the internet and other printed resources in developing their proposal, however, the teams are not allowed to confer with their co-teachers, supervisors or friends while the contest is on-going. Any form of fraud shall be ground for disqualification.
4. The situation containing the problem shall be given on-site on the day of the competition.
5. The SARP shall have the following parts:
  - Title**
  - Researcher**
  - I. Context and Rationale**
  - II. Action Research Questions (3 questions)**
    - Expected Output
  - III. Proposed Innovation, Intervention & Strategy**
  - IV. Action Research Methods**
    - A. Participants and/or Other Sources of Information
    - B. Data Gathering Methods

- C. Data Analysis Plan
- V. Action Research Work Plan and Timelines
  - Pre-Implementation Plan
  - Implementation Plan
  - Post Implementation Plan
- VI. Cost Estimates
- VII. Funds for Dissemination & Utilization
- VIII. References

6. After the allotted time for writing, the team shall be given 30 minutes to print their proposal in an A4-sized bond paper using their own printer, placed in a white folder and submit it to the assigned facilitator.
7. The assigned facilitator shall turn-over the folder to the board of judges for judging.
8. The decision of the board of judges is final.
9. The management shall have the full rights of the paper.

**Criteria for Judging**

MAIN CRITERIA	SUB-CRITERIA	%
I. Context and Rational	100-200 words	15
II. Sction Research Questions	Minimum of 3 questions	15
	Expected Output	10
III. Proposed Innovation, Intervention & Strategy		10
IV. Action Research Methods	Participants and/or other sources of data and information	10
	Data Gathering	10
	Data Analysis Plan	10
V. Action Research Work Plan and Timelines	Includes Pre-Implementation Plan, Implementation Plan and Post Implementation Plan	5
VI. Cost Estimates	Discussion and reflection per research question	5
VII. Funds for Dissemination & Utilization	With specific items and expenses	5
VIII. References		5

**F. SCIENCE INVESTIGATORY PROJECT (Secondary)**

Life Science (LS)		Physical Science(PS)		Robotics and Intelligence Machines (RIM)		Science Innovation Expo (SIE)
Individual Project	Team Project	Individual Project	Team Project	Individual Project	Team Project	2 Inventions (Individual or Team

**MECHANICS (District/Division Level)**

1. The following are the forms and manuscripts to be submitted at all levels of the competition:
  - a. **RESEARCH PLAN**
  - b. **FORMS** (for all the projects)
    - b.1 Checklist for Adult Sponsor
    - b.2 Student Checklist (1A)
    - b.3 Research Plan (Note: No need to attach the Research Plan Instructions.)
    - b.4 Approval Form (1B)
    - b.5 Regulated Research Institutional/Industrial Setting Form (1C)
  - c. **FORMS** depending on the type of research, e.g. involving humans, vertebrae, animals, hazardous chemicals, etc.
    - c.1 Qualified Scientist Form (2)
    - c.2. Risk Assessment Form (3)
    - c.3 Human Participants Form (4)
    - c.4 Human Informed Consent Form
    - c.5 Vertebrate Animal Form (5A)
    - c.6 Vertebrate Animal Form (5B)
    - c.7 Potentially Hazardous Biological Agents Risk Assessment Form (6A)
    - c.8 Human Vertebrae Animal Tissue Form (6B)
    - c.9 Continuation Project Form (7)
  - d. **ABSTRACT** –minimum of 250 words and to include the Purpose, Procedure, and Data Conclusion and can exclude Acknowledgment and Work of Procedure done by the mentor.

e. **RESEARCH PAPER** (include the Title Page, Abstract, Main Body and References)

f. **PROJECT EVALUATION**

g. **SCANNED COPY OF THE LOG BOOK** in pdf format

2. **TEAM PROJECT** shall have been conducted by two (2) or three (3) in a team of the Identified disciplines under Life Science, Physical Science and Robotics Intelligence Machine category.

**1. Requirements for the Project**

**A. Content**

1. Must contribute to the advancement of Science and Technology
2. Have socio-economic relevance in the environment protection and conservation of the ecosystem
3. Demonstrate scientific principles to provide new knowledge and discoveries

**B. Physical Set-Up**

1. Well-organized and attractive
2. Supports government environmental advocacy in reducing consumption of non-biodegradable or non-recyclable materials

**C. Abstract**

The abstract should consist of short description of the problem and its solution consisting of 250 words only. This should include purpose, procedure, results and conclusion.

**D. Research Paper**

The research paper must contain the following:

- Problem/s and Objectives
- Methods and Procedure
- Results
- Conclusions
- Recommendations
- Bibliography

**Criteria for Judging**

**F1. SCIENCE FAIR (Individual)**

**Scientific Thought and Engineering Goals (30%)**

- ✓ Scientific Thought: brief and clear statement of the problem; well-defined objectives and procedure; adequate data to support conclusions
- ✓ Engineering Goals: clear and relevant objective/s; economically feasible solutions
- ✓ Potential contribution/s and with practical value

**Creativity, Resourcefulness and Inventiveness (30%)**

- ✓ Creative ability in presenting the problem/s in the approach to solve the problem
- ✓ Innovative design/ new idea shown
- ✓ Intelligent and imaginative ways/means to undertake the project

**Thoroughness (15%)**

- ✓ Familiarity with scientific literature in the related field
- ✓ Awareness of other approaches or theories
- ✓ Appropriateness of methodology

**Research Skill (10%)**

- ✓ Use of laboratory equipment/innovative resources
- ✓ Appropriate, orderly and effective presentation of data
- ✓ Clear and thorough discussion of the project

**Presentation Skills (15%)**

✓ **Exhibit (5%)**

1. Clear, orderly and effective presentation of the project
2. Presentation of results
3. Conformity with the required physical specifications

✓ **Oral Presentation Skills (10%)**

1. Clear and thorough discussion of the project
2. Clarity and conciseness of explanation pertaining to important aspects of the Research proposal

3. Presentation aided by audio-visual materials
4. Over-all personality (self-confidence and enthusiasm)

## F2. SCIENCE FAIR (Team Category)

### Scientific Thought and Engineering Goals (25%)

- ✓ **Scientific Thought:** brief and clear statement of the problem; well-defined objectives and procedure; adequate data to support conclusions
- ✓ **Engineering Goals:** clear and relevant objective/s; economically feasible solutions
- ✓ **Potential contribution/s and with practical value**

### Creativity, Resourcefulness and Inventiveness (15%)

- ✓ Creative ability in presenting the problem/s in the approach to solve the problem
- ✓ Innovative design/ new idea shown
- ✓ Intelligent and imaginative ways/means to undertake the project

### Thoroughness (20%)

- ✓ Familiarity with scientific literature in the related field
- ✓ Awareness of other approaches or theories
- ✓ Appropriateness of methodology

### Research Skill (15%)

- ✓ Use of laboratory equipment/innovative resources
- ✓ Appropriate, orderly and effective presentation of data
- ✓ Clear and thorough discussion of the project

### Presentation Skills (20%)

- ✓ **Exhibit - 10%**
  1. Clear, orderly and effective presentation of the project
  2. Presentation of results
  3. Conformity with the required physical specifications
- ✓ **Oral Presentation Skills - 10%**
  1. Clear and thorough discussion of the project
  2. Clarity and conciseness of explanation pertaining to important aspects of the Research proposal
  3. Presentation aided by audio-visual materials
  4. Over-all personality (self-confidence and enthusiasm)

### Teamwork (5%)

**TOTAL 100%**

## F3. ROBOTICS AND INTELLIGENCE MACHINES (RIM)

### MECHANICS

1. Only the best two (2) entries during the District selection shall compete in the Division level.
2. The contestant must be able to program a Robot that can clean, clear, recycle or detect pollutants and solve problems that will harm the environment.
3. The contestant is given 3-5 minutes to explain the process of creating the program.
4. The decision of the Board of Judges is final and irrevocable.

### Criteria For Judging

Design (Originality)	-	25%
Efficiency (Addresses environmental issue/s)	-	30%
Technical Competency (Built independently)	-	25%
Aesthetics (Creativity)	-	10%
Practicality (User-friendly and replicable)	-	10%
<b>TOTAL</b>	<b>=</b>	<b>100%</b>

## F.4 SCIENCE INNOVATION EXPO (SIE)

### MECHANICS

1. The Science Innovation shall have the following parts:
  - a. Title Page and Table of Contents
  - b. Introduction ( b.1 Features and Specifications and b.2 Market trends & Opportunities)
  - c. Materials and Methods



- d. Results and Discussion
- e. Conclusions
- f. Acknowledgments
- g. References/Bibliography

- Only the best two (2) entries during the District selection shall compete in the Division level.
- The contestant must be able effectively communicate the benefits and impact in the community of the innovation.
- Demonstrate the functionality of the innovation.
- The contestant is given 3-5 minutes to explain the process of developing the innovation.
- The decision of the Board of Judges is final and irrevocable.

**Criteria For Judging**

Originality of the Innovation	-	30%
Community Connection and Impact	-	25%
Functionality and Quality	-	25%
Utilization of Patent information	-	20%
TOTAL	=	100%

**II. YOUTH FOR ENVIRONMENT IN SCHOOL ORGANIZATION (YES-O) CONTEST GUIDELINES**

**GENERAL GUIDELINES**

- The Division Youth for Environment in School Organization (YES-O) is open to all teachers and learners in public and private schools and ALS.
- Only the best two (2) winners during the district level competition in the events listed below are qualified to join the Division level quest, viz:

**Elementary**

Enviro-Photo Essay (pupils)	Search for Little Mr. and Miss Earth
Enviro-Photo Essay (teachers)	Enviro Street Dancing
Poster Making (Pupils)	Poster Making (Teacher)
Collage Making (Teacher)	Creative Screen Print Design (Teacher)

**Secondary**

Enviro-Photo Essay (students of JHS, SHS, ALS)	Enviro-Photo Essay (teachers)
Search for Mr. and Miss Earth	Enviro-Street Dancing
Creative Screen Print Design (SHS Student)	Collage Making (JHS Student)
Creative Screen Print Design (Teacher)	Collage Making (Teacher)

**A. SEARCH FOR Little Mr. and Miss Earth (Elementary) & Mr. and Miss Earth (Secondary)**

**MECHANICS**

- There shall be one contestant in the elementary and secondary per district during the division level.
- The contestant must be a registered member of the YES-O.
- The teacher-coach will act as the talent scout and make-up artist of the contestant.
- The contestant shall wear an attire made of recyclable materials in the final round.
- The selection shall have two (2) rounds. The first round will be an elimination round where the judges will choose the five (5) semi-finalists from each component group composed of 15 contestants. The judges will choose from the fifteen (15) semi-finalists the top 5 who will undergo the Q&A portion to determine the title holder.

**Criteria for Judging**

**I. Production Number (YES-O uniform or camp attire) -10%**

Carriage	-	25%
Stage Presence	-	25%
Showmanship	-	25%
Self-Introduction	-	<u>25%</u>
		100%

**II. Enviro Attire - 40%**

Creativity	-	50%
Carriage	-	25%
Stage Presence	-	<u>25%</u>
		100%
<b>III. Question and Answer -50%</b>		
Alertness	-	50%
Content	-	<u>50%</u>
		100%

## B. ENVIRO-PHOTO ESSAY

### MECHANICS

1. There will be three (3) stages: Stage 1 – Taking photos; Stage 2 – Essay Writing; and Stage 3 –Lay outing.
2. The team shall be composed of three (3) members. The team members for learners and teacher categories may be chosen following this grouping :  
Elementary – Grades 4-6 Junior HS – Grades 7-10 SHS – Grades 11-12
3. Contestants may use any digital-based or android camera.
4. Contestants are given a 30-minute exposure to the camp site where they could shoot their photos.
5. After the allotted time, contestants will choose 5 photos for them to print.
6. A green cartolina and short-sized bond paper will be provided to each participant. The cartolina will be used for the final layout of the photos and the short-sized bond paper for the essay writing.
7. The contestants shall write a three-paragraph essay in English with a maximum of 75 words for the elementary, maximum of 100 words for the secondary and maximum of 200 words for the teacher categories, excluding punctuation marks, appropriately titled, and explicitly explains the message of the photos anchored on the given theme.
8. A maximum of one hour will be given for lay outing and essay writing.
9. Each team is advised to bring their own glue, pair of scissors, USB, photo paper, laptop, printer, and extension wire.

#### Criteria for Judging:

Relevance to the theme	-	45%
Composition and creativity	-	30%
Clarity and technical quality	-	<u>25%</u>
		100%

## C. ENVIRO-STREET DANCING

### MECHANICS

1. Each district in the elementary and secondary shall send one Enviro Street Dance group compose of 30-50 participants, combination of students and teachers.
2. The group has the right to choose the appropriate environmental music, costume, and props for their dance. Execution is from 3-5 minutes including entrance and exit.
3. A representative of the group must be present during the drawing of lots at 9a.m. on September 25, 2019 at the Multi-Purpose hall of San Juan NHS to determine the sequence or order of street dancing and presentation.
4. The Enviro Street Dancing will start from San Juan NHS up to the Plaza Rizal in front of the Libmanan Municipal Building, where judging will be done.
5. It is imperative that all members of the competing unit will remain in their designated area until after the contest is over and refrain from throwing garbage in the streets as part of their props.
6. The decision of the judges is final and irrevocable.

#### Criteria for Judging

Relevance to Environmental Awareness	-	45%
Execution (Precision of the Movement)	-	25%
Originality of Choreography	-	10%
Creativity & Craftsmanship	-	10%
Costume and Props	-	10%
TOTAL		100%

## D. POSTER MAKING ((Grades 4-6) and Elementary and Secondary Teachers)

1. There shall only be one contestant who may be chosen from Grades 4-6 while teacher-contestant can come any grade level. Only the best 2 winners in the district selection shall compete in the division level.

- The poster should revolve around this year's theme.
- The medium must be in oil pastel using all colors. The required base paper to be used is ¼ illustration board. All materials shall be brought by the contestant. Borrowing of materials from other contestants is not allowed.
- The allotted time for the contest is one and a half (1 ½) hours, after which entries shall be submitted to the contest administrator. There will be a deduction of 2 points for every 1-minute extension.
- Each entry shall have a corresponding number to be assigned by the contest administrator.

**Criteria for Judging:**

<b>Originality</b>	-	<b>40%</b>
<b>Relevance to the Theme</b>	-	<b>40%</b>
<b>Overall Impact</b>	-	<b>20%</b>
		<b>100%</b>

**E. CREATIVE SILK SCREEN PRINTING (Senior HS student and Elementary & Secondary Teacher)**

**MECHANICS**

- There shall only be one contestant. Only the best two (2) entries during the District selection shall compete in the Division Level.
- The entries must have no markings that will identify the district of the contestants Each entry shall have a designated control number assigned by the chairman of the contest.
- The design should be aligned to the theme. Designs can be in the form of graphics, written messages or both. Each entry should be original and must not violate copyright, trademark, privacy right, or any other right of third party.
- The management shall have the right to use the entries/designs submitted in this contest.
- Contestants are given 3 hours to finish their design. There will be a deduction of 2pts from the total score for every minute extension.
- All contestants should be at the designated venue fifteen (15) minutes before the contest officially starts, short briefing and instructions will be given by the Chairman. Late contestants without valid reasons shall be disqualified.
- The contestants will draw lots to determine their respective places and set up their materials on their assigned places. Setting up of their materials and tools should be done during this time.
- Once the contest has started, contestants are prohibited from talking to any of their colleagues.
- Only the Chairman, facilitators, judges, official photographer and contestants are allowed in the venue.
- No questions shall be entertained during the contest proper except clarifications and points of order. All clarifications and points of order will be directed to the Chairman.
- Should there be any irregularities found during the contest, the Chairman, in consultation with the Board of Judges, may suspend the conduct of the specific skill exhibition if justified and refer the matter to the attention of management for appropriate action.
- Borrowing of materials, tools, supplies during the event is not allowed.
- The working area should be cleaned immediately after the event.
- The following materials shall be borne by the contestants and be brought in the contest venue:
  - Extension wire at least 3meters
  - Hair blower
  - White T-Shirt (round neck & medium size)
  - Textile paint (5 colors white, black, yellow, blue, and red) \*mixing of colors should be done on contest proper
  - Paint brush
  - Ready-made silk screen with frame minimum of 3 (8x10, 8x12, 12x12)
  - Adhesive Cutter
  - Folder/acetate sheet

**Criteria for Judging:**

<b>Originality of design/ideas</b>	<b>-30%</b>
<b>Relevance/Message Conveyed</b>	<b>-20%</b>
<b>Creativity</b>	<b>-20%</b>
<b>Visual appeal</b>	<b>-15%</b>
<b>Craftsmanship</b>	<b>-15%</b>
<b>TOTAL</b>	<b>100%</b>

**F. ON-THE-SPOT-COLLAGES MAKING (Junior HS Students and Elementary & Secondary Teachers)**

**MECHANICS**

- 1. There shall only be one contestant. Only the best two (2) entries during the District selection shall compete in the Division Level.
- 2. The entries must have no markings that will identify the district of the contestants Each entry shall have a designated control number assigned by the chairman of the contest.
- 3. The collage should be aligned to the theme and made out of waste materials available in the venue
- 4. The management shall have the right to use the entries/designs submitted in this contest.
- 5. Contestants are given 30 minutes to gather materials and 1 hour and 30 minutes to prepare the collage. There will be a deduction of 2pts from the total score for every minute extension.
- 6. Contestants are advised to bring Elmer's glue, pair of scissors, and pentel pens.

**Criteria for Judging:**

Originality of design/ideas	-30%
Relevance/Message Conveyed	-20%
Creativity	-20%
Visual appeal	-15%
Craftsmanship	-15%
<b>TOTAL</b>	<b>100%</b>

**E. TRAINING**

A minimum of five (5) participants per district composed of 3 teachers and 2 learners shall be admitted inside the venue during the training.

2019 DIVISION SCIENCE FAIR  
Matrix of Activities

Day 1-September 25, 2019						
TIME	EVENT			FACILITATORS		JUDGES
		Chair Person		Co-Chair Persons		
8:00-12:00	ENVIRO-STREET DANCING	Rolando Elaurza Edwin Marianita		Jovan Durante Arlon Alarcon Jeffrey Armea John San Agustin Rodolfo Pempeña II Christopher James Recreo Reymond Bustinera		Emerlina Barela Ryan Hertez Lorela Agnote Nolito Balestamon Gemma B. Garinga Benjamin Perico
3:00 ONWARDS  San Juan NHS Covered Court	SEARCH FOR LITTLE MR. & MS. EARTH	Gemma B. Montalban Mavy Angelica A. Vera  Tabulators: Jeffrey Armea Jesus M. Vargas  Choreographer: Salvador Belgica, Jr.		Jennelen Barcenilla Mayla B. Opeña Joy Chavez Josie Apsotol Dominic Arojado Jenny A. Nosil Marietta Gastilo		Dr. Rosemarie N. Panuelos Dr. Erma D. Escuro Julieta Dela Torre
1:00-5:00	Sectoral Elimination c/o District Science Coordinators & Congressional District Representatives					
Day 2 – September 26, 2019						
8:00-12:00	MAGIC SHOW					
SJNHS Covered Court	ELEM	Mavy Angelica A. Vera		Donna Breis Sheila Abundabar		Evelyn P. Anagao Nolito Balestamon Cristina A. Vida
	JHS	Maricris Zenarosa		Francia Santos Mandy Detoito Rhea Tessa T. Bernal		Jeremias Masapol Jr. Araceli T. Aquino Alina R. Salamat
	SHS	Erlinda Y. Malazarte		Reya Teresa Bayaca Nikka Joy Brizuela		Joselito Moldes Reynulfo Aguirre Jr. Simeon F. Billantes
LNCS Multi-Purpose Hall	SMART KID	Tomas R. Nacario Jr. Manuel M. Bobis Jr.		Mary Noleth Jocson Eric Boncacas Salve Pineda Girlie V. Cledera		Lydia B. Boringot Reynaldo Briguel Julieta Palenzuela
8:00-12:00	SCIENCE QUIZ –San Juan NHS					
Rm. 1	Grade 3	Mary Jane Azañes		Corazon Competente Dexter Damot		
Rm.2	Grade 4	Donna Laut		Perlita Vargas Lorna Froyalde		
Rm.3	Grade 5	Christy Dawal		Rechele A. Capal Marife Swing		
Rm.4	Grade 6	Ana Cristina Quinao		Mylene S. Sinogba Joanna Marie Pagador		
Rm.5	Grade 7	Dino Manuel Prestado		Margiiou S. Bañares Shiela C. Lumbo		
Rm.6	Grade 8	Dennis Mayores		Danny Boy Albo Maria Bernadette Corsado		
Rm.7	Grade 9	Alena Ruiz		Erlinda Bachecha Cleonie D. Magno		
Rm.8	Grade 10	Martina Serande		Juleus Cesar Cadacio Ma. Rosa Morillo		
Rm.9	Grade 11	Cyrel K. Bigueja		Marivic Pana Jesusa Sinfuego		

Rm.10	Grade 12	Janet Sicmaten	Mary Anne Joy A. Bermas Marlyn Martizano Juvy L. Parco	
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Continuation of Matrix of Activities...page 2

TIME	EVENT	FACILITATORS			JUDGES
		Chairperson		Co-Chairpersons	
8:00-5:00 SJNHS Computer Lab 1	ON-THE-S.Pp.O.T. SCIENCE COMPETITION	Mary Ann P. Lait		Nichols Rodillas Sarah Jane Talaran Amor D. Agravante	Maria Shelia Suñas Eva C. Malanyaon Judith C. Magcawas
SJNHS Computer Lab 2	ON-THE-SPOT SCIENCE ACTION RESEARCH WRITING	Maryrose Angieley Penaflor		Rachel Vivien Griego Eva G. Pamisan Jeralyn Pida	Perry Piano Richard Canas Arjay Año
	SCIENCE FAIR (LIFE SCIENCE AND APPLIED)	Rodolfo Pempeña II		Elsie Narvaez Jessa Morales Cyrel Bigueja Francia Cuala	Mary Jane B. Matucad Prescilla Permelona Grace M. Maravillas
	ROBOTICS INTELLIGENCE MACHINE	Janeta L. Valerio		Joel Serrano Myrna Jarapa Mary Jane Toledo	Imelda del Rosario Sherlina dela Torre Eva J. Barcia
	SCIENCE INNOVATION EXPO	Wena P. Barrameda		Maria Salve D. Beason Aireen E. Banaria Laila B. Valentino	Ernesto Garinga Jr. Neraldine Adela D. Ogorida Janet Vargas
3:00 ONWARDS  San Juan NHS Covered Court	SEARCH FOR MR. & MS. EARTH	Gemma B. Montalban Mavy Angelica A. Vera  Tabulators: Jeffrey Armea Jesus M. Vargas Reymond Bustinera  Choreographer: Salvador Belgica, Jr.		Jennelen Barcenilla Mayla B. Opeña Joy Chavez Josie Apsotol Dominic Arojado Jenny A. Nosil Marietta Gastilo	Analiza T. Ferrer Raul M. San Vicente Analiza S. Cervantes
9:00-11:00	ENVIRO-PHOTO ESSAY				
	ELEM- PUPILS	Edwin Marianita		Eunice Marianita Mirinisa Crispin	Rey Avila Mildred Prades Tita Celebrado
	SEC-STUDENTS	Ma. Alicia Balce		Virginia Capiz Rubirosa Arejola Gina Concina	
	TEACHERS	Mavy Angelica A. Vera		Rick Boter Juline Ann Din Valladolid Lenie Ruiz	
9:00-10:00	ON-THE-SPOT-POSTER MAKING				
	ELEM-PUPIL	Liezel B. Buendia		Aurelia Caganda Grace Maravillas	Margarita Tating Illuminada De Hitta Eva V. Evasco
	ELEM-TEACHER	May B. Tatel		Ma. Charina Blanquera Deoresty Babor	
	SEC-TEACHER	Marie Grace P. Canonizado		Ryan Rasonable Raquel Togores	

TIME	EVENT	FACILITATORS		JUDGES
		Chair Person	Co-Chair Persons	
8:00-12:00	CREATIVE SCREEN DESIGN PRINTING			
	SHS STUDENT	Janine Pauline Sierda	Ariel Sanchez Sean Marben Guinoo	Marina Alegro Juana Rafallo Talita Magdalena B. Mercado
	TEACHER	Nino Salvador Hernandez	Ramon Selleza Vincent Polvoriza	
9:00-11:00	COLLAGE MAKING			
	JUNIOR HS STUDENT	Marilou Abias	Lea Cabral Jocelyn Marco	Cybelle S. Esclanda Eusebio Garcia Vanessa Pamarang
	TEACHER	Lucia Guanzon	Nikko Villareal Jane Caseles	
Day 3-September 27, 2019				
8:00 ONWARDS	Training	Edwin Marianita Rodolfo Pempeña II		
3:00	Closing Program	Gemma Montalban Mary Ann Lait		

NOTE: All sectoral eliminations will be held at San Juan National High School.

ADVISORY BOARD

SUSAN S. COLLANO, CESO VI  
Assistant Schools Division Superintendent  
Officer-In-Charge  
Office of the Schools Division Superintendent

DOLORES Q. MAPUSAO                      CECILE C. FERRO  
Asst. Schools Division Superintendent      Asst. Schools Division Superintendent

LITA T. MIJARES  
Chief, Curriculum Implementation Division

EMILY B. ESMABE  
Education Program Supervisor-1, Science

LYDIA B. BORINGOT  
PSDS, Libmanan North District (Elem)

GLORIA A. ORIÑO  
PSDS, Libmanan North District (Sec)

Association of Science Secondary & Elementary Coordinators in Camarines Sur (ASSECCS)

President	-	Edwin Marianita
Vice President	-	Gemma Montalban
Secretary	-	Mayla Opena
Treasurer	-	Bernardita Lagumbay
Auditor	-	Arjon Alarcon
P.I.O.	-	Mary Ann Lait
Business Managers	-	Zelpha Abiada
		Angelito Machado
Peace Officers	-	Rey Asug
		Alex Catimbang

District Representatives	
Elementary	Secondary
1      Maricris Zenarosa	Liesel Buendia
2      Mary Jane Azañes	Erlinda Malazarte
3      Mavy Angelica Vera	Marilou Abias
4      Jeffrey Armea	Rodolfo Pempeña
5      Lucia Guanzon	Joy Chavez

Ex-Officio Members  
Nolito Balestamon  
Analiza T. Ferrer

TECHNICAL COMMITTEE

Level	Chairperson	Co-Chairperson
Elementary	Edwin Marianita	Gemma B. Montalban
Secondary	Rolando R. Elaurza	Jesus M. Vargas