



Republic of the Philippines  
**Department of Education**  
Region IV-A  
SCHOOLS DIVISION OF QUEZON PROVINCE



08 October 2025

**DIVISION MEMORANDUM**  
DM No. 1001, s. 2025

**RESULTS OF THE 2025 DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF)**

**To:** Assistant Schools Division Superintendents  
Chief, Curriculum Implementation Division  
Education Program Supervisors  
Public Schools District Supervisors  
Elementary School Principals  
Secondary School Principals  
All Others Concerned

1. In reference to DM No. 797 s.2025 titled "2025 Division Science and Technology Fair (DSTF)" and in preparation for the 2025 Regional Science and Technology Fair (RSTF) and the National Science and Technology Fair (NSTF) for School Year 2025-2026, this Office announces the winners in the recently concluded Division Science and Technology Fair (DSTF) and Research Congress held at Lopez National Comprehensive High School, Lopez Quezon last October 2-3, 2025.
2. The Schools Division of Quezon proudly extends its warmest congratulations to the winners and participants of the recently concluded Division Science and Technology Fair (DSTF) for their outstanding achievements and exemplary display of scientific excellence.
3. The first-place winners in each category of TUKLAS and the Innovation Expo during the Division Science and Technology Fair shall represent the division and undergo screening by the Regional Scientific Review Committee (RRC) through online submission and evaluation of projects, following the complete guidelines for judging the competition.
4. Please refer to the following Enclosures for the results:
  - Enclosure 1. List of Schools who participated in the DSTF and the Winners in the TUKLAS and Science Innovation Expo.

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- Enclosure 2. Winners in the Robotics Challenge
- Enclosure 3: Winners in the Research Congress

5. Immediate & wide dissemination of this Memorandum is desired.

  
**ROMMEL C. BAUTISTA, CESO V**  
Schools Division Superintendent 

cid-ims/ceo/10/08/2025  
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Enclosure No. 1 to DM No. 1001, s. 2025

**RESULTS OF THE 2025 DIVISION SCIENCE AND TECHNOLOGY FAIR**

October 2-3, 2025

Lopez National Comprehensive High School

The following schools actively participated during the conduct of Division Science & Technology Fair.

<b>NAME OF SCHOOL</b>	<b>SCHOOL HEAD / PRINCIPAL</b>
Alabat Island National High School	Leilani A. Pregellana
Atimonan National Comprehensive High School	Rene L. Portades
Dagatan National High School	Serafin M. Caringal
Dr. Maria D. Pastrana National High School	Mario A. Guevarra
Gumaca National High School	Gregorio I. Racelis
Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
Lusacan National High School	Analyn V. Atienza
Lutucan Integrated National High School	Feliza B. Quevada
Quezon National High School	Joseph C. Hinanay
Quezon Science High School	Cynthia P. Cuya
Recto Memorial National High School	Jessie V. Vasquez
Talipan National High School	Marina R. Abueva

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**TUKLAS: A Research Project Fair**

Category	Winners	Special Award	Project Title	Coach	School	School Head
<b>Life Science - Individual</b>	1st Place: Kyle Mejin L. Valles	<ul style="list-style-type: none"> <li>Community Impact Award</li> <li>Most Innovative</li> </ul>	Physiological and Morphological Responses of Escherichia coli to Simulated Microgravity Using an Arduino-based 2D Clinostat	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	2nd Place: Gerann Hushley M. Maningas	<ul style="list-style-type: none"> <li>Best Engineering Award</li> </ul>	HoneyVerlon: Synergized Antifungal Activity of Honey, Aloe vera (Aloe barbadensis miller), and Onion (Allium cepa) Against Aspergillus niger, Causal Pathogen of Corn (Zea mays)	Ms. Leianne Mae P. De Guzman	Quezon National High School	Joseph C. Hinanay
	3rd Place: Leean Ximone O. Manicad	<ul style="list-style-type: none"> <li>Best Presenter</li> </ul>	Seaweed (Sargassum) Waste Extract as a Natural Antifungal Preventive Agent Against Black Sigatoka on Banana (Musa spp.) Leaves	Cierrie Ann B. De Luna	Dr. Maria D. Pastrana National High School	Mario A. Guevarra
<b>Life Science - Team</b>	1st Place: 1. Emmanuette Danielle Lairen V. de los Santos 2. Adrian Uzziyah R. Tayao	<ul style="list-style-type: none"> <li>Best Presenter</li> </ul>	Phytochemical Analysis and Inhibitory Activity of Spherified Reishi Mushroom (Ganoderma lucidum) and Makahiya (Mimosa pudica) Leaves Extract Against the Physiological Development of Aedes aegypti	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay

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<b>Physical Science - Individual</b>	3. Riley A. Carandang 2nd Place: 1. Athena Jane V. Dolor 2. Marinette P. Mallorca 3. Edriella Muñoz  3rd Place: 1. Shyra O. Revillame 2. Venysse A. Fontanil 3. Danica Jane S. Tenorio	<ul style="list-style-type: none"> <li>Community Impact Award</li> <li>Most Innovative</li> <li>Best Engineering Project</li> </ul>	From Pest to Productivity: Converting Janitor Fish (Pterygoplichthys spp.) into Fish Amino Acid-Based Organic Fertilizer for Sustainable Agriculture  Effectiveness of Mucilage out of Okra (Abelmoschus esculentus) Pods as a Seed Coat and Gamma Irradiation in Response to Temperature and Drought Tolerance of Crisphead Lettuce (Lactuca sativa var. capitata) Seeds under Simulated Drought Conditions	Klenn Michael Jameson B. Piquero  Leianne Mae P. De Guzman  Dulce R. Obmerga	Lusacan NHS  Quezon National High School  Quezon Science High School	Analyn V. Atienza, EdD.  Joseph C. Hinanay  Cynthia P. Cuya
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<b>Physical Science - Team</b>	2nd Place: Cadelina, Sevdred Joseph D.	<ul style="list-style-type: none"> <li>Community Impact Award</li> </ul>	BioMesh: Natural Fiber Mesh from Coconut and Hyacinth for Microplastic Adsorption	Leianne Mae P. De Guzman	Quezon National High School	Joseph C. Hinanay
	3rd Place: Rhianna D. Pasahol	<ul style="list-style-type: none"> <li>Best Engineering Research</li> </ul>	Mokusaku-Enriched Compost with Coconut (Cocos nucifera) Coir Biochar as Soil Fertility Enhancer	Leianne Mae P. De Guzman	Quezon National High School	Joseph C. Hinanay
	1st Place: Cariño, James Rigor L. Redublo, Amira Jem V. Villapando, Alexander Jacob P.		Effectiveness Of Corn Cob And Corn Husk-Derived Biochar As Biosorbent For Poultry Wastewater Treatment	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya
	2nd Place: Deazeta, Chloe Anne A. Estrecho, Princess Lyrice P.	<ul style="list-style-type: none"> <li>Most Innovative Project</li> </ul>	Examining the sustainability and effectiveness of black fungus (Auricularia polytricha) as biodegradable plastic using experimental methods with laboratory and non-laboratory materials to reduce non-biodegradable plastic waste.	Roderick L. Litana	Gumaca National High School	Gregorio I. Racelis
	3rd Place: Kiel Rean L. Ladublan	<ul style="list-style-type: none"> <li>Best Prototype Model</li> </ul>	Papaya (Carica papaya) and Kamias (Averrhoa bilimbi) Leaf Extract as Natural Dishwashing Liquid: An Evaluation of the	Roderick L. Litana	Gumaca National High School	Gregorio I. Racelis

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<b>Mathematical and Computational Science - Individual</b>	Maria Athena A. Liwalas Shannelle Mae S. Nojor	<ul style="list-style-type: none"> <li>• Best in Engineering Research</li> <li>• Best Prototype Model</li> <li>• Best Presenter</li> </ul>	Formulation's Effectiveness in Pursuit of a Sustainable Cleaning Alternative	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	1st Place: Jonas S. Romasanta	<ul style="list-style-type: none"> <li>• Sustainability Award</li> <li>• Most Innovative Project</li> </ul>	Computational Fluid Dynamics Analysis of Fluid Flow Through Three-Dimensional Porous Fractals: Menger Sponge and Sierpinski Tetrahedron	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	2nd Place: Ken Xylon B. Malolos	<ul style="list-style-type: none"> <li>• Community Impact Award</li> </ul>	Advanced Multi-objective Resource Optimization Algorithm (AMROA): Meta-Heuristic Approach on Sustainable Irrigation Management Addressing Cultural Eutrophication Against Usual Differential Evolution Equation	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	3rd Place: Kein Andrei M. Francisco		Mathematical Modeling and Predictive Analysis of Evaporation using RICE-WISE Model in Irrigated Rice Paddies for Optimized Irrigation Scheduling	Gideon Louis T. Trañas	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo

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<b>Mathematical and Computational Science - Science Team</b>	<b>1st Place:</b> 1. Amir Shan L. Alqaydi 2. Carlos Jacobo J. Macalinao 3. McUriel P. Rivadulla	<ul style="list-style-type: none"> <li>• Most Innovative Project</li> </ul>	Development of a Markovian Pollination Efficiency Index for Optimizing Pollination  Efficiency Using Open Source Bee Foraging Data	Leianne M. De Guzman	Quezon National High School	Joseph C. Hinanay
	<b>2nd Place:</b> 1. Earl Jann Mae A. Baltar 2. Sofia Angela A. De Castro 3. Louise Jun C. Lacasad	<ul style="list-style-type: none"> <li>• Sustainability Award</li> </ul>	EC-PRO: Electrical Conductivity Prediction Via Regression Optimization For Hydroponic System	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya
<b>Robotics and Intelligent Machines - Individual</b>	<b>3rd Place:</b> 1. James Khyle M. Banaria 2. James Kendrick V. Orgeta 3. Laurence Angelo N. Salumbides	<ul style="list-style-type: none"> <li>• Best in Engineering Research</li> <li>• Community Impact</li> </ul>	Integrating Heat Dynamics into Universal Soil Loss Equation (USLE): A Unified Equation for Seasonal Erosion Prediction	Angelo C. Angeles	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	<b>1st Place:</b> Jancis Aaliyah Almarinez	<ul style="list-style-type: none"> <li>• BEST Presenter</li> <li>• Best Prototype Model</li> </ul>	AQUA-SMART: Aquaponics and Aquaculture Self-Sustaining Monitoring System with Automated Feeding, Water	Harold Bert L. Distor	DMDPNHS	Mario Guevarra

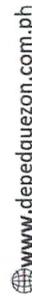
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<b>Robotics and Intelligent Machines - Team</b>	2nd Place: Ella, Juan Marcus Antonio S.	• Best Engineering Research	Quality Control, and Renewable Solar Tracking Maizer: Mobile And Autonomous Light Trap Robot For Pest Management And Monitoring	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya
	3rd Place: Matt Damian L. Reig	• Most Innovative Research Project • Community Impact Award	Airborne-MicroPlastic Detector (A-MPD): A Particulate Sensor Utilizing Digital Microscopy and Image Recognition for On-Site Detection of Airborne Microplastics and Particulate Analysis	Leianne M. De Guzman	Quezon National High School	Joseph C. Hinanay
	1st Place: Jilliane Faye Cagujas Wrenzcel Anne Restom	• Most Innovative Project • Best Engineering • Best Presenter • Community Impact Award	ODY-SEA (Sea Expedition Assistant): A Computer Vision-Based System for Identifying Invasive Clown Knifefish (Chitala ornata)	Angelo C. Angeles	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	2nd Place: Andrei U. Aman Princess Jhannea L. Dumpal	• Community Impact Award	R-COMB: Remote-Controlled Oil Mitigation Boat with Replaceable Coconut (Cocos nucifera) Coir	Harold Bert L. Distor	DMDPNHS	Mario A. Guevarra

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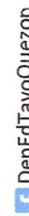
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<b>National Science and Innovation Expo - Individual</b>	Pauleene Charl I. Oliveros  3rd Place: Renz A. Angeles Prince Zallen Deiv B. Verdera, John Gabriel P. Vibora	<ul style="list-style-type: none"> <li>Best Prototype Model</li> </ul>	and Human Hair Fiber Pads for Oil Spill Adsorption  PYROBOT (Firefighter Buddy): Remote Controlled Firefighting Robot with Autonomous Extinguish System	Angelo C. Angeles	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	1st Place: Alyssandra Sophia M. Emralino	<ul style="list-style-type: none"> <li>Best Engineering Research</li> <li>Most Innovative Project</li> <li>Best Presenter</li> </ul>	SEEKER: Smart Early-detection and Extinguishing Kit with Email and SMS Alerts and Real-time Analytics	Gladys B. Mendoza	Lutucan Integrated National High School	Feliza B. Quevada
	2nd Place: Justin Allen E. Bataclan	<ul style="list-style-type: none"> <li>Community Impact Award</li> </ul>	"HARVEST: Heat-Assisted Rice Ventilation using Efficient Solar Technology - A Hybrid AC/DC Drying System for Rice Drying" SolarHydroFlow: Development of Automated Irrigation System Integrated with Environmental and Farm Monitoring Mechanism	Gideon Louis T. Trañas	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	3rd Place: Jhon Anthony D. Orgena	<ul style="list-style-type: none"> <li>Best Prototype Model</li> </ul>		Gideon Louis T. Trañas	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo

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National Science and Innovation Expo - Team	1st Place: Yuriah Ivy P. Crisologo Jhazmine Joy J. Maaliw Wayne Nicholas C. Allarey	<ul style="list-style-type: none"> <li>• Best Engineering Research</li> <li>• Best Presenter</li> <li>• Best Prototype Model</li> <li>• Most Innovative Research</li> </ul>	FERRION: Bio-based Ferrofluid Filtration System for Microplastic Removal in Water	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	2nd Place: Ralph Timothy D. Carandang Faith Angela S. Lagaya Jerssine Grace L. Lapid	<ul style="list-style-type: none"> <li>• Community Impact Award</li> </ul>	AgriBiST: Biodegradable Seedling Tray out of Loam Soil, CompoBiST, Sweet Potato (Ipomoea batatas) Starch Bioplastic, and Coconut (Cocos nucifera) Fiber	Luningning E. De Villa	Quezon National High School	Joseph C. Hinanay
	3rd Place: John Carlo Artillaga Cielo Marie Garcia, Pitt Markus M. Perez,		Powering Individual Households Through Pico Energy Solutions (PIPES): A Sustainable In-Pipe Micro Hydroelectric Generator Using Household Water Flow	John Michael A. Castillo	Recto Memorial National High School	Jessie V. Vasquez

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Enclosure No. 2 to DM No. 1001, s. 2025

**ROBOTICS CHALLENGE**

Category	Winners	Coach	School	School Head
<b>Sumobot Autonomous 500g – Individual</b>	1st Place: Grachela Ann F. Caparros	Jaymar Z. Oliveros	Gumaca National High School	Gregorio I. Racelis
	2nd Place: Lyndon Jay Rosario	Eric Mangubat	Quezon Science High School	Cynthia P. Cuya
	3rd Place: Dea Thiara M. Linde	Romeo F. Estos	Lopez National Comprehensive High School	Victor Emmanuel D. Maderoza
	1st Place: Alyssandra Sophia M. Emralino Zydrick P. Manalo Ian C. Evangelista	Gladys B. Mendoza	Lutucan Integrated National High School	Feliza B. Quevada
<b>Sumobot Autonomous 500g – Team</b>	2nd Place: Francheska Eve P. Escaro Alyssa Mae L. Datu Laic Joy Ilagan	Romeo F. Estos	Lopez National Comprehensive High School	Victor Emmanuel D. Maderoza
	3rd Place: Vince Miguel D. Babierra Johan Miguel M. Muhi Rence David R. Caalaman	Ericson Mangubat	Quezon Science High School	Cynthia P. Cuya

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<b>Sumobot Autonomous 1000g - Individual</b>	1st Place: Xian Kenji L. De los Reyes	Rainier Anthony D. Enriquez	Recto Memorial National High School	Jessie V. Vasquez
	2nd Place: Richard V. Palmero	Dennis F. Erasmo	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	3rd Place: Tejay Bisococho	Brix Maraig	Quezon National High School	Joseph C. Hinanay
<b>Sumobot Autonomous 1000g - Team</b>	1st Place: Pitt Markus M. Perez Cielo Marie R. Garcia Zoe Krizzia A. Ventocilla	Rainier Anthony D. Enriquez	Recto Memorial National High School	Jessie V. Vasquez
	2nd Place: John Aldwin R. Matalog Jake Adrian L. Javid Jeremy C. Castillo	Gladys B. Mendoza	Lutucan Integrated National High School	Feliza B. Quevada
	3rd Place: Miguel Santino E. Loyola Mary Jamer R. Calbot Kiel Rean L. Ladublan	Jaymar Z. Oliveros	Gumaca National High School	Gregorio I. Racelis
<b>Line Tracing - Individual</b>	1st Place: Cryzel P. Salvago	Shillem L. Mitra	Recto Memorial National High School	Jessie V. Vasquez
	2nd Place: Ruben Junior C. Manguiat	John Paul A. Veñales	Recto Memorial National High School	Jessie V. Vasquez
	3rd Place: Rhyza Clouiene C. Ancaja	Jarry M. Mecantina	Gumaca National High School	Gregorio I. Racelis

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<b>Line Tracing – Team</b>	1st Place: Maria Angela C. Mabuti Cazandra Rose M. Vargas Rhianne Coleen O. Rodel	Jasper Vincent Verdaguer	Recto Memorial National High School	Jessie V. Vasquez
	2nd Place: Zyana Alexi D. Garcia Czian Owen M. Olivera John Elijah D. Albestor	Jarry Mecantina	Gumaca National High School	Gregorio I. Racelis
	3rd Place: Angel Trisha Mae C. Nuñez Bea Kyla V. Eliponeo	Alexis A. Parco	Atimonan National Comprehensive High School	Rene L. Portades
<b>Balloon Popping – Individual</b>	1st Place: McKrenzie Laudrene F. Ariza	Jasper Vincent Verdaguer	Recto Memorial National High School	Jessie V. Vasquez
	2nd Place: Charleen O. Rodel	Jasper Vincent Verdaguer	Recto Memorial National High School	Jessie V. Vasquez
	3rd Place: Jandy Rose A. Javier	Jaymar Oliveros	Gumaca National High School	Gregorio I. Racelis
<b>Balloon Popping – Team</b>	1st Place: Egeriah Czarina A. Cabrera Charlize Marie D. San Agustin Mary Margarete G. Garcia	Ericson Mangubat	Quezon Science High School	Cynthia P. Cuya
	2nd Place: Ma. Janelle P. Parco Giro Paulyn Q. Macarandang Nicholas Jed E. Sarmiento	Ericson Mangubat	Quezon Science High School	Cynthia P. Cuya

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3rd Place: Zaivhan A. Lavides Erica Mae M. Tesorero	Alexis A. Parco	Atimonan National Comprehensive High School	Rene L. Portades
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**RESEARCH CONGRESS**

Category	Winners	Special Award	Project Title	Coach	School	School Head
Life Science - Individual	1st Place: Hamza M. Ghnaim	<ul style="list-style-type: none"> <li>Best Presenter</li> <li>Most Promising Research Project</li> </ul>	Evaluation Of Insecticidal Properties Of Black Jack (Bidens Pilosa L.) Leaf Extract And Makabuhay (Tinospora Crispa (L.) Hook.F. & Thomson) Stem Extract Against Mealybugs (Pseudococcidae)	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya
	2nd Place: Shaun Randall P. Rabano	<ul style="list-style-type: none"> <li>Community Impact Award</li> <li>Best in Engineering Research</li> <li>Best Display Poster</li> <li>Best Prototype Model</li> </ul>	Bio Enhanced Alga-Feed Pellet: Exploring Lyngbya as a Key Ingredient in Pelletized Chicken Nutrition	John Michael A. Castillo	Recto Memorial National High School	Jessie V. Vasquez
	3rd Place: Rein Lexi E. Pacurza		"Therapeutic Efficacy of Allium sativum (garlic) and Mentha piperita (peppermint)	Keya Zia V. Pitero	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo

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			<p>Extracts as a Natural Alternative Treatment for Tonsillitis”</p> <p>Sargassum Seaweed (F. Sargassaceae) and Banana Peel (Musa sapientum) Extract as a Fertilizer For Lettuce (Lactuca Sativa) Plant</p> <p>The Utilization of Marigold (Tagetes Erecta) Leaf Extract as a Lightening Patchfor Reducing Varicose Veins Among Adult Women: An Experimental Study</p> <p>Synergistic Effects Of Pigeonberry (Rivina Humilis L.) And Insulin Plant (Chamaecostus Cuspidatus) Extracts Against Citrus Huanglongbing (Candidatus Liberibacter Asiaticus) In Calamansi Shrub (Citrus × Microcarpa)</p>	<p>Ma. Camille Anne M. Guevarra</p> <p>Roderick L. Litana</p> <p>Dulce R. Obmerga</p>	<p>Atimonan National Comprehensive High School</p> <p>Gumaca National High School</p> <p>Quezon Science High School</p>	<p>Rene L. Portades</p> <p>Gregorio I. Racelis</p> <p>Cynthia P. Cuya</p>
<p><b>Life Science - Team</b></p>	<p>4th Place: Athena Anneliese A. Araya</p> <p>5th Place: Jamaica Nichelle B. Requiron</p> <p>1st Place: 1. Katrina Zofia L. Alegre Allan 2. Gabriel R. Aman Cadence 3. Rayne A. Makipagay</p> <ul style="list-style-type: none"> <li>• Best Engineering Research</li> <li>• Most Promising Research Project</li> <li>• Best Presenter</li> <li>• Best Display Poster</li> </ul>					

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<p>2nd Place:</p> <ol style="list-style-type: none"> <li>Llaneta, Precious Faith Nathalie</li> <li>Moreno, Christine Nicole D.</li> <li>Yaguel, Mark Johncen C.</li> </ol>	<p>Synergized Activity of Bee Pollen from Stingless Bees (Tetragonula biroli) and Soursoop (Annona muricata Lin.) Leaves Against Pseudomonas aeruginosa, a Bacterial Pathogen Causing Pneumonia</p>	<p>Leianne Mae P. De Guzman</p>	<p>Quezon National High School</p>	<p>Joseph C. Hinanay</p>
<p>3rd Place:</p> <ol style="list-style-type: none"> <li>Eunice I. Santos</li> <li>Alleah Faye F. Matriano</li> <li>Elhaine Patrice N. Paleracio</li> </ol>	<p>Jasmine (Jasminum) Flower Extract and Pomelo (Citrus maxima) Leaves Extract as Biopreservative to Lakatan (Musa acuminata)</p>	<p>Ma. Camille Anne M. Guevarra</p>	<p>Atimonan National Comprehensive High School</p>	<p>Rene Portades</p>
<p>4th Place:</p> <ol style="list-style-type: none"> <li>Dashee Yochana S. Tinamisan</li> <li>Crystalyne O. Cademia</li> <li>Jasmeet Bless P. Mondilla</li> </ol>	<p>Larvicidal Activity Of Papaya Leaves (Carica Papaya L.) And Blue Ternate Flower (Clitoria Ternatea) Extracts Against Mosquitoes (Aedes Aegypti)</p>	<p>Mrs. Shiela D. Oblea</p>	<p>Paaralang Sekundarya Ng Lucban Integrated School</p>	<p>Reynaldo V. Nanong, EdD</p>
<p>5th Place:</p> <ol style="list-style-type: none"> <li>Eloisa Fredaline P. Samarita</li> <li>Anthony C. Martinez</li> </ol>	<p>Insecticidal Property of Kamias (Averrhoa bilimbi), Coconut vinegar (Cocos nociper), and Calamansi (Citrus microcarpa) Mixture</p>	<p>Grace Joy A. Salumbides</p>	<p>Paaralang Sekundarya Ng Lucban Integrated School</p>	<p>Reynaldo V. Nanong, EdD</p>

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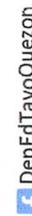
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Category	Winners	Special Award	Project Title	Coach	School	School Head
	3. Carl Alfred V. Oblefias		Against Coconut Hispine Beetle (Brontispa Longissima)			
<b>Physical Science - Individual</b>	1st Place: Huelves, Lei Kaila I.	<ul style="list-style-type: none"> <li>Community Impact Award</li> <li>Best Display Poster</li> </ul>	Mango (Mangifera indica L.) Seed Kernel as Natural Anti-Enzymatic Browning Agent Against Browning and Oxidation in Trimmed Young Coconut (Cocos nucifera) Mesocarp	Cajan, Oliver B.	DMDPNHS	Mario A. Guevarra
	2nd Place: Aljane R. Mercado	<ul style="list-style-type: none"> <li>Best Engineering Research</li> </ul>	The Utilization of D-Limonene Extract in Recovering Diesel-Range Hydrocarbons from Pyrolyzed Plastic Waste for Sustainable Fuel Production	Gideon Louis T. Trañas	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	3rd Place: Arciaga, Leon Kirby M.	<ul style="list-style-type: none"> <li>Sustainability Award</li> </ul>	Bambury: Utilizing Bamboo And Abaca Rope For Upright Drill Mechanisms As An Alternative Seedling Tray For Seed Sowing And Establishment Of Narra And Kalumpit	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya

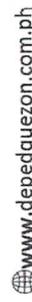
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<b>Physical Science - Team</b>	4th Place: Kristan O. Hilario	<ul style="list-style-type: none"> <li>• Best Prototype Model</li> <li>• Best Presenter</li> </ul>	Aloe Vera (Aloe barbadensis Miller)-Infused Indoor Air Purifier as Total Volatile Organic Compounds (TVOCs) and Formaldehyde (HCHO) Remover in Indoor Environment	Shiela Niña L. Rea-Santes	Paaralang Sekondaryang ng Lucban Integrated School	Reynaldo V. Nanong, EdD
	5th Place: Cielo D. Beltran	<ul style="list-style-type: none"> <li>• Most Promising Research Project</li> </ul>	Sawdust and Rice (Oryza sativa) Husk Ash as Fire-Resistant Particle Board	Leianne Mae P. De Guzman	Quezon National High School	Joseph C. Hinanay
	1st Place: Mary Kaye V. Morano Kyle Allen Gabriel V. Reyes Edriel Juben P. Vilar	<ul style="list-style-type: none"> <li>• Best in Engineering Research</li> <li>• Best Presenter</li> </ul>	RELEAF System: Fruit and Vegetable Waste Microbial Fuel Cell Boosted by Coconut Shell Biochar and Calcined Eggshell for Self-Sustaining Leaf Crop Farming	Gideon Louis T. Trañas	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo
	2nd Place: Lee Vincent N. Reazo Lovely Anne N. Endino Jhannah Nichole A. Novilla	<ul style="list-style-type: none"> <li>• Community Impact Award</li> <li>• Best in Display Poster</li> </ul>	Utilization of Cassava-Based Polysaccharides as Natural Flocculants for Turbidity Reduction in Household Water Supply	Al Jay M. Verdán	Alabat Island NHS	Leilani A. Pregellana
	3rd Place: Argante, Rianna Normelia P.	<ul style="list-style-type: none"> <li>• Best in Prototype Model</li> </ul>	Shellcrete: Utilization of Waste Egg Shells (Gallus gallus domesticus) and Asian	Angelo C. Angeles	Lopez National Comprehensive High School	Victor Emmanuel D. Maderazo

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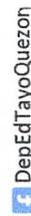
Indrinal, Michael Jacob B. Perion, Clark Samuel M	Green Mussel Shells (Perna viridis) as Partial Cement along with Terracotta and Glass Particles as Aggregate in an Alternative Concrete	Grace Joy A. Salumbides	Paaralang Sekondaryang Lucban Integrated School	Reynaldo V. Nanong, EDD
4th Place: Nelson O. Abilay Jr Daime Henrick D. Dajao John Aaro B. Abuel	<ul style="list-style-type: none"> <li>Sustainability Award</li> </ul>			
5th Place: Alexandra M. Labaguins Czarina Erin B. Roson Patrice Ann Louise E. Salayo	<ul style="list-style-type: none"> <li>Most Promising Research Project</li> </ul>			

Category	Winners	Special Award	Project Title	Coach	School	School Head
<b>Mathematics and Computational Science - Individual</b>	1st Place: Elaizarose Q. Golfo	<ul style="list-style-type: none"> <li>Sustainability Award</li> <li>Best Presenter</li> <li>Best Prototype Model</li> </ul>	COCOMATH: Coconut Optimization Through Computational Modeling And Analytical Techniques	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya

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<b>Mathematics and Computational Science - 1 Team</b>	2nd Place: Arik Jehan Mendoza	<ul style="list-style-type: none"> <li>• Best Display Poster</li> <li>• Most Promising Reasearch Project</li> <li>• Best Engineering Research</li> <li>• Community Impact Award</li> </ul>	A Mathematical Framework and Ideal Equation for Predicting Water Height Dynamics Under Environmental Influences	Nico O. Buenaventura	Gumaca National High School	Gregorio I. Racelis
	3rd Place: Lemuel S. Dimayuga	<ul style="list-style-type: none"> <li>• Most Promising Reasearch Project</li> <li>• Best Presenter</li> <li>• Best Prototype Model</li> <li>• Best Display Poster</li> </ul>	Enhancing Alabat's Fishing Industry through Statistical Forecasting Model	Armand G. Petalco/Rene M. Inson	Alabat Island National High School	Leilani a. Pregellana
	1st Place: 1. Lira M. Gasis 2. John David R. Jus 3. Gerundio A. Real IV	<ul style="list-style-type: none"> <li>• Most Promising Reasearch Project</li> <li>• Best Presenter</li> <li>• Best Prototype Model</li> <li>• Best Display Poster</li> <li>• Sustainability Award</li> </ul>	Tal-E (Talipeño- Math Made Easy): Development of a Talipan National High School Specialized AI Engine Addressing Challenges on General Mathematics	Joel R. Arcamo	Talipan National High School	Marina R. Abueva
	2nd Place: 1. Jayson Alverth M. Belazon	<ul style="list-style-type: none"> <li>• Sustainability Award</li> </ul>	Yield Prediction Model for Coconut Production Using Regression Analysis	Joel R. Arcamo	Alabat Island National High School	Marina R. Abueva

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	<ul style="list-style-type: none"> <li>• Best Engineering Research Community Impact Award</li> </ul>					
	<p>2. Santina Raizzell G. Camara</p> <p>3. Yuan Danielle P. Malabunga</p>					

Category	Winners	Special Award	Project Title	Coach	School	School Head
<b>Robotics and Intelligence Machine - Individual</b>	1st Place: Nor-ayin T. Pantao	<ul style="list-style-type: none"> <li>• Sustainability Award</li> <li>• Community Impact Award</li> <li>• Best Engineering Research</li> <li>• Best Prototype Model</li> </ul>	Evaluation of an Arduino-Based Solar-Powered Robot for Crop Seeding and Watering with Varying Seeding Rates and Speeds: Investigating Accuracy, Efficiency, on farmers	Roderick L. Litana	Gumaca National High School	Gregorio I. Racelis
	2nd Place: Mumiah Reijel V. Garcia	<ul style="list-style-type: none"> <li>• Best Display Poster</li> <li>• Best Presenter</li> </ul>	The Plausibility Investigation of Solar-Powered Arduino-based Lawn Mower (S.P.A.L.M.) as an Eco-friendly Alternative to Gas-powered Models		Recto Memorial National High School	Jessie V. Vasquez

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	3rd Place: Darryl M. Nilo	<ul style="list-style-type: none"> <li>Most Promising Research Project</li> </ul>	aCSSist: Developing an Interactive Simulator in Learning CSS for Talipan National High School	Joel Arcamo	Talipan National High School	Marina R. Abueva
<b>Robotics and Intelligence Machine - Team</b>	1st Place: Alexis Isabelle B. Cabangon Reynante P. Martinez Jr, Chino D. Oliveros	<ul style="list-style-type: none"> <li>Most Promising Research Project</li> <li>Community Impact Award</li> <li>Best Engineering Research</li> <li>Best Prototype</li> </ul>	Alabat's Aqua Man: Assessing The Potential of Soil Moisture Extraction Technology to Mitigate Water Shortage In Alabat, Quezon Province	James Nichole Ungriano	Alabat Island NHS	Leilani A. Pregellana
	2nd Place: Aiyana Nicole M. Getuaban Lovely Joy B. Liwanag		The Utilization of Remote Control (RC) Car: "To Retrieve and Deliver" (TRaD) for Hospitals and Polyclinics	Irish Comia	Recto Memorial National High School	Jessie V. Vasquez
	3rd Place: Tristan Bryson M. Mangelit Maria Angela C. Mabuting Cazandra Rose M. Vargas	<ul style="list-style-type: none"> <li>Best Presenter</li> <li>Sustainability Award</li> </ul>	Fire Locator and Alert Response Equipment (FLARE): An Advanced System for Real-time Fire Detection with Enhanced Auto Door Lock System	John Michael A. Castillo	Recto Memorial National High School	Jessie V. Vasquez

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	<p>4th Place: Alair Martin P. Gutierrez Euoia Jald Bless P. Tabien Allysa Feliz A. Valencia</p> <p>5th Place: Janela D. Dapito Almya Leya F. Hernandez</p>		<p>PRISMA: Precision Robotic Integrated System for Multifunctional Agri-Aquaculture Applications</p> <p>Robo-cur: Development of a Smart Arduino-driven Canine-inspired Custodian Robot Equipped with ESP32s-CAM for an Accurate Detection in Fortifying Domestic Monitoring and Protection of Vacant Homes</p>	<p>Gideon Louis T. Trañas</p> <p>Roderick L. Litana</p>	<p>Lopez National Comprehensive High School</p> <p>Gumaca National High School</p>	<p>Victor Emmanuel D. Maderazo</p> <p>Gregorio I. Raccelis</p>
<p><b>Category</b> <b>National Science and Innovation Expo - Individual</b></p>	<p><b>Winners</b></p> <p>1st Place: Darren Jay B. Rosales</p>	<p><b>Special Award</b></p> <ul style="list-style-type: none"> <li>• Best Engineering Research</li> <li>• Best Display Poster</li> <li>• Community Impact Award</li> </ul>	<p><b>Project Title</b></p> <p>Design and evaluation of an arduino-based cleaning and Sanitizing machine for reusing glass bottles</p>	<p><b>Coach</b></p> <p>Cris Edison U. Villanueva</p>	<p><b>School</b></p> <p>Lutucan Integrated National High School</p>	<p><b>School Head</b></p> <p>Feliza B. Quevada</p>

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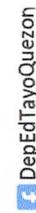
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	<ul style="list-style-type: none"> <li>• Most Promising Research Project</li> </ul>					
2nd Place: Miguel Santino E. Loyola		Sound-Sensing Assistive Strap Device to Detect Approaching Vehicles for the Hearing Impaired: Enhancing Awareness Through Real-Time Vibration Alerts	Roderick L. Litana	Gumaca National High School	Gregorio I. Racelis	
3rd Place: Xandria T. Ignacio	<ul style="list-style-type: none"> <li>• Best Presenter</li> </ul>	Ardoguino: An LCD-Based Temperature Detector for Canine Body Temperature Through Sensor Accuracy Testing	Roderick L. Litana	Gumaca National High School	Gregorio I. Racelis	
4th Place: Almira Fate B. Lusanta	<ul style="list-style-type: none"> <li>• Best Prototype</li> <li>• Sustainability Award</li> </ul>	Iwas: development of an arduino-based flood alert system for Community risk reduction	Joel Arcamo	Talipan National High School	Marina R. Abueva	
5th Place: Erica Mae M. Tesorero		CARS: Car Alarm Reawakening System	Ma. Camille Anne M. Guevarra	Atimonan National Comprehensive High School	Rene L. Portades	

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<b>National Science and Innovation Expo - Team</b>	1st Place: Jhames Rianne G. Razo Kendrex Jairus R. Rodriguez Josh Gabriel A. Simbulan	<ul style="list-style-type: none"> <li>• Most Promising Research Project</li> <li>• Best Engineering Research</li> <li>• Best Presenter</li> <li>• Community Impact Award</li> </ul>	AquaGuard: App-Enabled Automated Solar-Powered IoT System for Real-Time Water Quality Monitoring and Smart Feeding in Aquaculture Fish Ponds	Lumingning De Villa	Quezon National High School	Joseph C. Hinanay
	2nd Place: Rhein Zakurah I. Abuyan Calleigh Aubrey S. Achacoso Riva Angeli D. Ulan	<ul style="list-style-type: none"> <li>• Sustainability Award</li> <li>• Best Display Poster</li> </ul>	AERONSENSE: Automated Environmental Response And Optimization System for Efficient Nutrient And Sensor-Based Evaluation In Aeroionics	Dulce R. Obmerga	Quezon Science High School	Cynthia P. Cuya
	3rd Place: Jenney D. Alarcon John Roi E. Alegre Zyric Renjay C. Tan		Aerovor: Developing a Renewable Seed Grader for Small-Scale Farmers	Joel Arcamo	Talipan National High School	Marina R. Abueva
	4th Place: Marie Antonette S. Anahaw Ashly Claudet F. Grafilo	<ul style="list-style-type: none"> <li>• Best Prototype Model</li> </ul>	Efficiency assessment of a food waste shredding Machine for biogas production	Cris Edison U. Villanueva	Lutucan Integrated National High School	Feliza B. Quevada

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	Harvey P. Oborza 5th Place: Rachele C. Rana Saicymiere E. Zaide Kaye D. Velasco		SOLAR-POWERED WATER ENTRANCE AND EXIT PATHWAY (SWEEP): A Canal Cleaning Development For Waterways Management	Karlo C. Claridades	Paaralang Sekondaryang ng Lucban Integrated School	Reynaldo V. Nanong, EdD
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