



Republic of the Philippines  
**Department of Education**  
Region II – Cagayan Valley  
SCHOOLS DIVISION OF NUEVA VIZCAYA

06 January 2025

**DIVISION MEMORANDUM**

No. 15, s. 2025

**PARTICIPANTS IN THE 2025 REGIONAL SCIENCE & TECHNOLOGY FAIR**

To: Assistant Schools Division Superintendent  
Chief ES, CID/SGOD  
Education Program Supervisors  
Public Schools District Supervisors/District In-charge  
Public & Private Elementary / Secondary School Heads  
District / Secondary / Integrated Schools Science Coordinators  
All Others Concerned

1. Relative to the issuance of RM No. 396 and 451, s. 2025, “2025 Regional Science & Technology Fair”, this office through the Curriculum Implementation Division announces the official participants of SDO Nueva Vizcaya in the said event at Santiago City National High School, Santiago City, Isabela on January 24-25, 2025.
2. This aims to continuously empower the youth and cultivate innovation and creativity amid the changing world. Likewise, the activity aims to showcase learners' competence in addressing community problems for sustainable development and maximize their potential to be inquisitive and creative in dealing with real-life issues.
3. The traveling expenses, meals and snacks, and other incidental expenses relative to the preparation and conduct of the regional fair shall be charged against the school, division, and/or local funds subject to the usual auditing and accounting rules and regulations.
4. District Heads, Science Coordinators, School Heads, and Department Heads from participating schools are invited to attend the regional competition as observers. Their presence is encouraged to foster engagement, provide support to the participants, and gain insights into the competition's conduct and best practices.



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5. Attached is the Official List of Participants for the 2025 Regional Science & Technology Fair. The list has been categorized as follows for reference;

Consultants ( SDS/ASDS/Chiefs)	4
EPS – Science	1
EPS- Mathematics	1
Alternate Focal Person Science	1
Alternate Focal Person Math	1
Secretariat /Camp Manager	1
Contestants	
Elementary	4
Secondary	40
Coaches	
Elementary	2
Secondary	25
TOTAL	80

6. All non-teaching personnel involved in the conduct of the fair shall be entitled to Compensatory Overtime Credit ( COC ) or Compensatory Time-Off per CSC and DBM Joint Circular No. 2, s. 2004, while teacher-participants are entitled to Vacation Service Credits as per Deped Order No. 53, s. 2003.
7. Immediate dissemination of this memorandum is desired.

  
**ORLANDO E. MANUEL PhD, CESO V**  
Schools Division Superintendent



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**2025 REGIONAL SCIENCE & TECHNOLOGY FAIR PARTICIPANTS**

January 23-25, 2025 @ Santiago City National High School

Category: **LIFE SCIENCE (LS) (Individual)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Hazmine Anne Ceril	Ex-situ Optimization of Liquid Culture Condition for Hyphal and mycelial biomass production of <i>Plorotus Ostrueatus</i> Using Nitro-Polysaccharide concoctions	Aritao NHS	Jenelyn D. Tablada Jessica Gatchalian	Aritao I	Rodrigo C. Rosete	Arnel Batalla
2	Marielle M. Evangelista	Wound Healing Potential of Topical Ointment Derived from Mayana ( <i>Plectranthuscutellariodes</i> ) Leaf Extract and Its Antibacterial Effects Against <i>Escherichia</i> Oil	NVGCHS	Marizza C. Verzola Olivar Reimos D. Barroga	Bayombong I	Merlita C. Padilla PhD	Merlyn S. Abat PhD

Category: **LIFE SCIENCE (LS) (Team)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Claudine Kate Verdadero	Investigating Soil pH Levels and their Impact on Pechay Growth	Murong NHS	Deo P. Urbano Jullie N. Lacaden	Bagabag I	Georly Tugade	Mobalisa A. Cabato EdD
	Desiree Joyce Lachayan						
	Emelie Estabillo						
2	Samantha Bea Diaresco	Encapsulation of Microwave Assisted Biosynthesized Nanomaterial NY CHITOSAN-SODIUM TPP from KATKATIWIT for its Biological and Antioxidant Properties	Aritao NHS	Jenelyn D. Tablada Jessica Gatchalian	Aritao I	Rodrigo Rosete	Arnel Batalla EdD
	Hanna Rhian Canlas						
	Lian Ayani Ceril						



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**2025 REGIONAL SCIENCE & TECHNOLOGY FAIR PARTICIPANTS**

January 23-25, 2025 @ Santiago City National High School

Category: **PHYSICAL SCIENCE (PS) (Individual)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Aisel P. Willie	Bridging Sustainability and Technology: Waste-Based Conductive Carbon Paint and Supercapacitors	NVGCHS	Mary Grace P. Bautista Bernadette B. Bacud	Bayombong I	Merzelita P. Padilla PhD	Merlyn S. Abat, PhD
2	Zeijan Mihyel O. Mundo	Extraction, Characterization, and Utilization of Fibers from Corn Husks, Banana, and Rambutan Peelings using varying Concentrations of NaOH	Paniki High School	Ellen Grace C. Madronio	Bagabag I	Rosie J. Calip, PhD	Dr. Mona Lisa A. Cabato

Category: **PHYSICAL SCIENCE (PS) (Team)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Abigail Mangili	Project Geowand: Biogas Electricity Generation from Organic Waste through Anaerobic Digestion	NVGCHS	Nathaniel R. Almendra Jenny Ann M. Ventura	Bayombong I	Merlita P. Padilla PhD	Merlyn S. Abat, PhD
	Ariel Jansen Almendra						
	Jowene Inhumang						
2	Leony S. Carabbacan Jr.	HYDROFLAME: Solar-Powered Oxyhydrogen Stove for Sustainable, Eco-friendly Cooking	Bagabag NHS	Hazel C. Manzano	Bagabag I	Teresita M. Taboy	Mona Lisa A. Cabato PhD
	Michael Duane F. Buduan						
	Christen Jowell I. Nieves						



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January 23-25, 2025 @ Santiago City National High School

Category: **RESEARCH INNOVATION EXPO (Individual)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Jerwin W. Bando	Sustainable Bike with SANA All: Sensors and Automatic Navigation Alerts with Liner Layering	NVGCHS	John Paul D. Purigay Monico C. Veloso Michael Luis D. Casil	Bayombong I	Merlita C. Padilla, PhD	Merlyn S. Abat, PhD
2	Jhouvans David C. Sangalang	Effectiveness of Banana (Musa Acuminata) Stem Extract as Germination Enhancer for Eggplant (Solanum Melongena) Seeds	Bagabag National High School	Aprilyn S. Corpuz Cornelius Julius M. Caser	Bagabag I	Teresita M. Taboy	Monaliza A. Cabato, EdD

Category: **RESEARCH INNOVATION EXPO (Team)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1	Axel Dave Conde	Development and Evaluation of a Proximity Sensor device for enhancing Navigation in Individuals WITH Sensory Impairments	Lamo National High School	James Prae B. Liclican	Dupax del Norte I	Jigger R. Manuel	Josie L. Conde, EdD
	Casey Tamayo						
	Brent Clowie Ancheta						
2	Wylson Albert Dangan	Household Online Security and Monitoring (HOSAM)	Solano National High School	Erwin Roy S. Cachola	Solano	Trinidad B. Logan	Cesar Mariano
	Ammiel Reigner R. Asis						
	Charlyn Rose Lucas						



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**2025 REGIONAL SCIENCE & TECHNOLOGY FAIR PARTICIPANTS**

January 23-25, 2025 @ Santiago City National High School

Category: **ROBOTICS AND INTELLIGENT MACHINES (Individual)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1 <sup>st</sup>	Vrienn Ezrahl Karl Viernes	Smart Sprout: An Arduino Powered Automated Plant Watering System with Nutrient Checking and Real time User.	NVGCHS	John Paul D. Purigay Monico C. Veloso	Bayombong I	Merlita C. Padilla, PhD	Merlyn S. Abat, PhD
2 <sup>nd</sup>	James Jordan V. Bullecer	A Robotic Drip System Utilizing Soil Moisture-Based Control: A way to optimize water consumption.	Lamo NHS	Rosanna D. Roduta	Dupax Del Norte I	Jigger R. Manuel	Josie L. Conde, EdD

Category: **ROBOTICS AND INTELLIGENT MACHINES (Team)**

Rank	Names of Winner	Research Title	School	Coach	District	School Head	PSDS
1 <sup>st</sup>	Leigh Angelique J. Baptista	Project SOLSEED: Solar Powered Robot that Aims to Develop A simple but effective Autonomous planting method for general Agriculture.	SMU-JHS-SHS	Junior-Van B. Paritang	Bayombong I	Dr. Zayda S. Asuncion	Merlyn S. Abat, PhD
	Claire Louise P. Santos						
	Rojhane Venize F. Tablang						
2 <sup>nd</sup>	Brensen Kate D. Gacang	Development of Automatic Dry Waste Sorter System Using Proximity Sensor	Solano High School	Mary Grace L. Daguio	Solano II	Trinidad B. Logan, PhD	Ceasario C. Mariano, PhD
	Jolyna A. Magapan						
	Roselyn Joy M. Montero						



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Category: **MATHEMATICS COMPUTATIONAL SCIENCE- INDIVIDUAL**

<b>Rank</b>	<b>Names of Winner</b>	<b>Research Title</b>	<b>School</b>	<b>Coach</b>	<b>District</b>	<b>School Head</b>	<b>PSDS</b>
1	Kits T. Galzote	Mathematical Model of Swine Production in the Philippines	Murong NHS	Deo P. Urbano	Bagabag 1	Georly R. Tugade	Mona Lisa A. Cabato
2	Jipe Alester P. Laroza	Mathematical Model for the Optimization of the Nueva Vizcaya General Comprehensive High School Solid Waste Management	NVGCHS	Gretchen Mae B. Pascua, Benedick Madriaga	Bayombong 1	Merlita C. Padilla	Merlyn S. Abat

Category: **MATHEMATICS COMPUTATIONAL SCIENCE- TEAM**

<b>Rank</b>	<b>Names of Winner</b>	<b>Research Title</b>	<b>School</b>	<b>Coach</b>	<b>District</b>	<b>School Head</b>	<b>PSDS</b>
1	Jeevon L. Lopez	Immunization Data Mapping Using Geographic Information Systems (GIS) and the Childbirth Rate Models in the Philippines	Murong NHS	Deo P. Urbano	Bagabag 1	Georly R. Tugade	Mona Lisa A. Cabato
	Moya Princess V. Seriosa						
	Trisha Ann V. Igonex						
2	Jeslyn E. Mellena	Exploring the Correlation Between Temperature Variability and Dry Occurrences in Nueva Vizcaya: A Mathematical Modeling Study	Bintawan NHS	Helen Angelica V. Gadiano	Villaverde	Amadeo B. Dulay	Loreto T. Alaman
	Aeriyn Kaitlin Grace O. Placido						
	Jamil T. Valenzuela						



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**ON-THE-SPOT POSTER MAKING CONTEST – Secondary Level**

<b>Rank</b>	<b>Names of Winner</b>	<b>School</b>	<b>Coach</b>	<b>District</b>	<b>School Head</b>	<b>PSDS</b>
1	Trisha Ann V. Igonex	Murong NHS	Julie Lacaden	Bagabag I	Georly Tugade	Monalisa A. Cabato PhD
2	Casey Lyn Tamayo	Lamo NHS		Dupax del Norte I	Jigger Manuel	Josie L. Conde PhD
3	Mariele M. Evangelista	NVGCHS		Bayombong I	Merlita Padilla PhD	Merlyn S. Abat EdD

**ON-THE-SPOT POSTER MAKING CONTEST – Elementary Level**

<b>Rank</b>	<b>Names of Winner</b>	<b>School</b>	<b>Coach</b>	<b>District</b>	<b>School Head</b>	<b>District SC</b>	<b>PSDS</b>
1	Loremy Sheryl U. Vadil	Bambang North CS	Jay arr R. Balatibat	Bambang II	Amherstine Boy B. Bata	Fe Butay	Edwrad M. Santiago

**SCIENCE OLYMPICS – Elementary Level**

<b>Rank</b>	<b>Names of Winner</b>	<b>School</b>	<b>Coach</b>	<b>District</b>	<b>School Head</b>	<b>District SC</b>	<b>PSDS</b>
1	Hanayah Joyce Danyde	Bayombong CS ISC	Gloria Ramos	Bayombong I	Rubilita Tallase	Rachel Buncad	Merlyn S. Abat EdD
	Sofia Ysabel Llera						
	Mark John Analingan						



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**SDO NUEVA VIZCAYA DELEGATION OFFICIALS**

<b>Name</b>	<b>Position</b>	<b>Committee</b>
1. Ronnie B. Bibas EdD	EPS-Science	Overall Focal Person- Science
2. Nimfa Norie A. Aquino PhD	EPS- Mathematics	Overall Focal Person – Math
3. Roselle R. Mendoza PhD	P-III, Ambaguio HS	Alternate Focal Person – Science
4. Johnny T. Pagaduan	HT-III, Bagabag NHS	Alternate Focal Person – Mathematics
5. Maria Leonora L. Cortado	HT-V, NVGCHS	Secretariat
6. Maricel S. Franco PhD, CESE	CID Chief	Consultants
7. Romulo S. Ancheta PhD	SGOD Chief	
8. Adonis C. Ceperez EdD, CESE	Assistant Schools Division Superintendent	
9. Orlando E. Manuel PhD, CESO V	Schools Division Superintendent	



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