Republic of the Philippines
Department of Education
REGION X- NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

DEPARTMENT OF EDUCATION
EL SALVADOR CITY- RECORDS SECTION
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November 10, 2026

DIVISION MEMORANDUM
No. 381, s. 2026

ANNOUNCEMENT OF WINNERS FOR THE
DIVISION SCIENCE AND TECHNOLOGY FAIR 2026

To: Secondary School Heads
All Others Concerned

1. Following Division Memorandum No. 288, s. 2026, titled Division Science and Technology Fair (DSTF) 2026, this Office, through the Curriculum Implementation Division, issues this **Announcement of Winners for the Division Science and Technology Fair** 2026 and extends its warmest congratulations to the school heads, science coordinators, teachers and the members of the technical working group for the successful conduct of the DSTF 2026.

2. Attached is the official list of winners for the DSTF 2026.

3. All **first-place** winning entries in paper presentation will represent the Division in the upcoming Regional Science and Technology Fair 2026. Winning researchers are directed to submit both soft and hard copies of the revised research papers to the Curriculum Implementation Division (CID) thru Marie Jade A. Cacayan on or before November 20, 2026.

4. All learner–researchers, one coach per entry, and the Review Committee are required to attend the following post-DSTF activities:

a. Online consultations with the panelist on November 11 and 13, 2026; and
b. Finalization Workshop for Science Investigatory Projects: Preparation for the Regional Science and Technology Fair on November 19, 2026 at Division Conference Hall, Division Office, Poblacion, El Salvador City.

5. Further, the following personnel are hereby designated to form the Review Committee responsible for evaluating and refining the Division's entries for the Regional Science and Technology Fair.

Name	School/ Station	Designation/ Position
Marie Jade A. Cacayan	Division Office	Education Program Supervisor
Anabelle M. Mamaclay	Division Office	Education Program Supervisor
Therese Angeli M. Romasanta	Kalabaylabay IS	School Principal I
Mark Anthony G. Arrieta	SFDA NHS	School Principal I
Phoebe Joy Pacut	Cogon NHS	MT 1/ SIC

6. Participation shall be subject to the *no-disruption-of-classes policy* stipulated in DepEd Order No. 09, s. 2005 entitled Instituting Measures to *Increase Engaged Time-On-Task and Ensuring Compliance Therewith.* The concerned school head is advised to assign teachers to handle the classes of the identified teacher-participant.

7. This Office shall adhere to Equal Opportunity Principle (EOP) in the steps undertaken for this purpose. Hence, all decisions and actions shall be based on guidelines set forth, with no discrimination on the account of age, gender, identity, sexual orientation, civil status, disability, religion, ethnicity or political affiliation.

8. This Office directs the immediate and wide dissemination of this Memorandum.

RANDOLPH B. TORTOLA
Schools Division Superintendent

Encl: As stated

To be indicated in the Perpetual Index
under the following subjects:

CONTESTS
SCIENCE EDUCATION

Re: Announcement of Winners for the Division Science and Technology Fair 2026

CID/ mjac

Attachment No. 1 to Division Memorandum No. 381 s. 2026

A. Paper presentation

Life Science Individual

Rank	School	Name Researchers	Research Adviser	Research Title
1st	San Francisco de Asis NHS	Khet Marydhal O. Maestre	Kristianne Marie M. Yamaro	Evaluating the Effectiveness of a Dew-Harvesting Bamboo Brick in Improving Soil Moisture and Plant Growth
2nd	Cogon NHS	Maria Victoria C. Palasan	Yuriel Clint C. Bejiga	Phytochemical Profile and DPPH Radical Scavenging Activity of Air-Dried Cocos nucifera L. Root Ethanolic Extract
3rd	Kalabaylabay IS	Adrian Ethan Matthew A. Nones	Christian Delle C. Ragmac, Lougie Mae P. Batalla	Synergistic Antibacterial Potential of Banana (Musa paradisiaca L.) Pseudostem, Talisay (Terminalia catappa L.) Leaves, and Malunggay (Moringa oleifera Lam.) Seeds Against Bacterial Infections in Nile Tilapia (Oreochromis niloticus)

Life Science Team

Rank	School	Name Researchers	Research Adviser	Research Title
1st	Molugan NHS	Cydric James D. Epistola Kezia E. Posas Andrea Samantha S. Santiago	Rheza Mae P. Ebal	Calcium Acetate Synthesized from Eggshell Waste and Acetic Acid: A Sustainable Seed Priming Agent for Okra (*Abelmoschus esculentus*)
2nd	Cogon NHS	Rheya Jaine L. Daug Princess Erica D. Rapirap Vhoe Andrew C. Ranis	Ma. Cecilia U. Obligado	CitraBlume: Optimization of the Citrus microcarpa Peel–Blumea balsamifera Leaf Extract Ratio for Antioxidant Activity Using the DPPH Assay
3rd	El Salvador City NHS	John Gabriel S. Gaid Liez Zyra M. Malinao Mickhia Thia B. Bangalao	Neil Ian Tagaylo Macahilos	MycoFoam: Ganoderma lucidum-Banana Pseudostem Mycelium Biocomposite - Growth Kinetics, Characterization, and Compressive Testing

Physical Science Individual

Rank	School	First Name	Research Adviser	Research Title
1st	Cogon NHS	Kristine Love J. Igloria	Marites B. Gonzales	BanaHair Net: Development and Evaluation of Eco-Friendly Hairnets Made from Banana Pseudo-Stem Fibers with Biodegradable Coatings
2nd	El Salvador City NHS	Julyan Ray A. Villavelez	Rufa Mae Pagutayao Cajilla	BioVolta: Enhancing Electrocoagulation WaterTreatment of Amoros River using Moringa oleifera Seed Powder and Stainless steel Electrodes

Physical Science Team

Rank	School	First Name	Research Adviser	Research Title
1st	Cogon NHS	Kinsley Vanne C. Josol Riana F. Fabricante Daniel A. Zamuco	Maritess T. Jariolne	PsycroPhyll: Development and Evaluation of Passive Cooling Panels using Mahogany (Swietenia mycrophyllia) Leaves, Coconut (Cocus nucifera) Coir, and Cassava (Manihot esculenta) Starch
2nd	Sinaloc NHS	Dave Brazane J. Magdale Andy Marie T. Salvador Vanessa Cezanne S. Velez	Jessica Catian Paburada	pHloral Powder: Development and Evaluation of a Powdered Natural pH Indicator from Clitoria ternatea Flower Extract
3rd	El Salvador City NHS	Stephanie Nicole R. Tobias Aiesha Rose A. Burton Coleen Marie V. Labana	Dexby Penaso De Guzman	Sargassum polycystum-Agar Hydroge: Preliminary In Silico Screening, Fabrication and Formulation

Mathematics and Computational Sciences Individual

RANK	School	First Name	Research Adviser	Research Title
1st	Cogon NHS	Mike Ian B. Oco	Jun Mark Rey O. Nob, Phd	Hybrid Timetabling Optimization Using Sudoku-Based and Tabu Search Algorithms for Efficient and Conflict-Free DepEd Scheduling
2nd	Cogon NHS	Princess Daryn Tablang	Liza May D. Nob	Optimizing CCTV Placement for Theft-Related Surveillance Using the Art Gallery Theorem, Greedy Algorithm, and Voronoi Partitioning

3rd	Molugan NHS	Bert C. Yabo	James Rey G. Saludares	A Generalized Formula for the Magic Constant of n-Pointed Magic Stars Using Sequences of Consecutive Even and Odd Integers

Mathematics and Computational Sciences Team

RANK	School	First Name	Research Adviser	Research Title
1st	Molugan NHS	Crisha Jay F. Sabayanan Nathaniel D. Paclibar	James Rey G. Saludares	Graph-Theoretic Optimization of Garbage Collection Routes in Barangay Molugan, El Salvador City
2nd	Cogon NHS	Jeff Denver Y. Ruita Abigail E. Ranque Matt Nelson T. Cagubcub	Jun Mark Rey O. Nob, Phd	An Automated Mathematical Optimization Framework for DepEd Class Scheduling Based on Hybrid Particle Swarm Optimization (PSO) and Integer Linear Programming (ILP)
3rd	Cogon NHS	Frenzy Jane S. Abriol Regina Mary T. Lorono Tianshi Yongco	Liza May D. Nob	Risk-Aware Route Optimization for Safe Typhoon Rescue Operations Using a Hybrid Dijkstra–Genetic Algorithm

Robotics and Intelligent Machines Individual

RANK	School	First Name	Research Adviser	Research Title
1st	El Salvador City NHS	Jb A. Pacampara	Leslie Amor Lorono Dadole	Development and Performance Evaluation of UKAYBot: Utilizing MARS E1 Cagebot for Palay Stirring During Sun Drying
2nd	Molugan NHS	Cristian Claus A. Apatan	Nemelie P. Ral	FlameGuard: Design and Development of an Autonomous Fire-Fighting Robot System
3rd	Cogon NHS	Erriane Kate O. Batalla	Sherwin D. Oranio	AGAPAY: An ESP32-Based Intelligent Assistive Cane with Obstacle Detection, Camera-Based Object Recognition, and Voice Guidance for the Visually Impaired

Robotics and Intelligent Machines Team

RANK	School	First Name	Research Adviser	Research Title
1st	El Salvador City NHS	Reymart T. Maravilla Breanne M. Bonayog Rhiolyn P. Gaid	Ben Gabriel Galang Maghuyop	FSL HANDS: Filipino Sign Language Hand-Activated Neural Decoding System

2nd	Molugan NHS	Kevin Zane C. Cabello Ian M. Calimbo Jose Pepe C. Legaspi	Sherlita L. Suson	Urban Heat Stress Solution: A Prototype Design of an Arduino-Driven Rooftop Sprinkler
3rd	Cogon NHS	Rianna Monique T. Lorono Franz Jefferson S. Digamon Christian Kent R. Siosan	Sherwin D. Oranio	GuardianVision:Artificial Intelligence-Driven Campus Surveillance System for Identity Authentication, Unauthorized Individual Detection, and Campus Security

Science Innovation Expo Individual

RANK	School	First Name	Research Adviser	Research Title
1st	Sambulawan NHS	Nikki Shane S. Buray	Joerigene Odette Comon Neri	*Development of* natural Ink Using Dried mahogany (Swietenia macrophylla) Barck extract
2nd	Cogon NHS	Alexa Nichole Marie M. Oco	Liza May D. Nob	EcoMat: Development of Biodegradable Geotextile Mats from *Broussonetia papyrifera* Fiber for Erosion Control
3rd	Molugan NHS	Aurish Vecino	Rheza Mae P. Ebal	Ride Alert: A Smart Bus Assistance System with Automated Stop Requests and Wake-up Alerts

Science Innovation Expo Team

RANK	School	First Name	Research Adviser	Research Title
1st	El Salvador City NHS	Jezreel R. Macalaguing Ella Rose Padong Jerome L. Jamis	Ben Gabriel Galang Maghuyop	Intruder Detector Camera
2nd	Cogon NHS	Angel Ceejay M. Cabico Danilo Jr. N. Posadas John Michael T. Galagala	Ma. Cecilia U. Obligado	Fabrication and Characterization of Guava (Psidium Guajava) Leaf Extract-Based Biopolymer Film for Fruit Cover Applications
3rd	Sambulawan NHS	Angeline C. Balasabas Jouana Mica B. Cajilla Roselyn A. Araniego	Joerigene Odette Comon Neri	Utilizing Carica Papaya Peel Powder Supplemented with Citrus Maxima Peel as an Alternative Chalkboard Cleaner

B. Poster presentation

Special Award Poster Life Science Individual

Rank	School	Name Researchers	Adviser
1st	San Francisco de Asis NHS	Khet Marydhal O. Maestre	Kristianne Marie M. Yamaro
2nd	Cogon NHS	Maria Victoria C. Palasan	Yuriel Clint C. Bejiga
3rd	Kalabaylabay IS	Adrian Ethan Matthew A. Nones	Christian Delle C. Ragmac, Lougie Mae P. Batalla

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		Kezia E. Posas	
		Andrea Samantha S. Santiago	
2nd	Cogon NHS	Rheya Jaine L. Daug	Ma. Cecilia U. Obligado
		Princess Erica D. Rapirap	
		Vhoe Andrew C. Ranis	
3rd	San Francisco de Asis NHS	Dudes Ian B. Fabricante	Kristianne Marie M. Yamaro
		Gretchen P. Mambayla	
		Shanaia Shane Princess M. Jonayon	

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		Franz Jefferson S. Digamon	
		Christian Kent R. Siosan	
3rd	Molugan NHS	Kevin Zane C. Cabello	Sherlita L. Suson
		Ian M. Calimbo	
		Jose Pepe C. Legaspi	

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		John Michael T. Galagala	