



Republic of the Philippines
Department of Education
REGION IV-A CALABARZON
SCHOOLS DIVISION OF BATANGAS

04 Sep 2026

DIVISION MEMORANDUM

No. 444, s. 2026

RESULTS OF THE 2026 DIVISION SCIENCE AND TECHNOLOGY FAIR

To: Assistant Schools Division Superintendents
Chief- Curriculum Implementation Division (CID)
Chief- School Governance and Operations Division (SGOD)
Education Program Supervisors
Public Schools District Supervisors
Public and Private Secondary School Heads
All Others Concerned

1. In reference to Division Memorandum No. 313, s. 2026 titled *2026 Division Science and Technology Fair (DSTF)*, this Office, through the Curriculum Implementation Division, hereby announces the results of the 2026 Division Science and Technology Fair held at Balayan East Central School on September 3, 2026. The official results are contained in the attached enclosure.
2. The first-place winners in each category shall represent the Division in the 2026 Regional Science and Technology Fair to be held on December 15-18, 2026 at Sto. Tomas City Senior High School, Sto. Tomas City, Batangas.
3. Immediate and wide dissemination of this Memorandum is desired.


MARITES A. IBANEZ, CESO V
Schools Division Superintendent

Encl. As stated

Reference: Division Memorandum No. 313, s. 2026

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

Issuances- Division Memorandum

EBD/ RESULTS OF THE 2026 DIVISION SCIENCE AND TECHNOLOGY FAIR/R2-155451/09/7/2026



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Enclosure 1. Official Results of 2025 Division Science and Technology Fair

Life Science – Individual

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lemery SHS	Lemery	Jacob Gabriel M. Capuno	Mr. Eugenio C. Magdales	Novel In Vitro Antibacterial Activity and Cytotoxicity of Ethanolic Crude Extracts from the Freshwater Sponge <i>Spongilla alba</i> Collected from Taal Lake, Philippines
2 nd	Batangas Province Science HS	Balayan East	Lewis Paolo G. Noche	Geralyn A. Alday	In Silico Assessment of Cavendish Banana (<i>Musa acuminata</i>) Latex Diffusion Kinetics and Efficacy against <i>Aspergillus niger</i>
3 rd	Balayan NHS	Balayan East	Sharleez Hasan Mohamed M. Alsuwaidi	Dr. Kerwin M. Tumambing	PROJECT SEAWARD: Sargassum-based Indicator in Ecological Assessment and Water Analysis for Risk Detection

Life Science – Team

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lemery SHS	Lemery	Hannah Zoe C. De Roxas Jannah Yvonne D. Faderagao John Ashley L. Maranan	Mr. Eugenio C. Magdales	CurcoGel: PVA/Coconut Husk-Derived Nanocellulose Hydrogel Infused with Turmeric Leaf Extract as an Antibacterial Wound Dressing
2 nd	Batangas Province Science HS	Balayan East	Jose Angelo T. Bondoc Vrylle O. Taguibao Akezia Christine S. Olaiwar	Geralyn A. Alday	PNEUMO-STRIP: A Paper-Based Colorimetric Biosensor for Fast <i>Streptococcus pneumoniae</i> Infection Detection
3 rd	Malvar SHS	Malvar	Gelyn P. Contante Aingella May L. Dela Cruz Erica Joyce B. Raza	Shiela L. Caya	Formulation of PlantGuard Microgel+: A Dual-Release Biodegradable Hydrogel and Organic Volatile Powder for Soil and Air Pest Repellence



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Physical Science – Individual

Rank	School	Sub-office	Students	Coach	Research Title
1st	Balayan NHS	Balayan East	Josher Steven P. Lontok	Dr. Kerwin M. Tumambing	PROJECT LAPIS: Leading Agricultural Corn cob (Zea mays) into Pencils for Innovative and Sustainable Use
2nd	Lucsuhin NHS	Calatagan	Chrissy Jhunnez V. Lacambra	Janice A. Bacit	Design, Development, and Evaluation of BILAD: Biosecure Indoor Low-Humidity Airflow Dryer
3rd	Calatagan SHS	Calatagan	Cassandra Isabel M. Laderas	Erika M. Layon	Magnetic Activated Carbon Derived from Mangrove (Avicennia marina) Leaf Litter for Adsorptive Removal of Heavy Metals from Mangrove Waters of Calatagan, Batangas

Physical Science – Team

Rank	School	Sub-office	Students	Coach	Research Title
1st	Nasugbu East SHS	Nasugbu East	Princess Kaye D. Batac Raphael B. Bolante John Harold A. Gonzales	Eron C. Pangilinan Mark Jhun B. Atienza	Frequency Response Analysis of Reinforced Concrete Structures Using Low-Cost MEMS Accelerometers for Early Structural Defect Detection
2nd	Lucsuhin NHS	Calatagan	John Jacob D. Mendoza Alexandra Alison M. Nevarez Cherrie Ann B. Zara	Razel J. Panaligan Jayselle P. Calingasan	SPARK: A Multipurpose Emergency Go Box
3rd	Malvar	San Isidor NHS (Malvar)	Christine Joy Mayo Bless Margaret Garachico Jacob L. Hernandez	Melinda P. Nitro Maria Angelica R. Lamano	ThermoVolt: A Mini Heat-to-Electricity Generator for Disaster Preparedness and Emergency Power Supply



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Mathematics and Computational Science – Individual

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lemery SHS	Lemery	Marlverson Heindrix O. Rosales	Mrs. Analie B. Atienza	Early Warning System for Dengue: An Interactive Forecasting and Simulation Framework for Lemery, Batangas
2 nd	Batangas Province Science HS	Balayan East	Naijhel F. Arenas	Geralyn A. Alday	Quantifying Temporal Changes in the Geometric Complexity of the Western Shoreline of Nasugbu, Batangas, Philippines from 2012 to 2025 Using Fractal Dimension Analysis of Historical Satellite Imagery
3 rd	Balayan SHS	Balayan West	Ramelle Jewel Davalos	Pauline Misty M. Panganiban Maricel P. Patulot	Utilizing Pedestrian Flow Principles in Developing an Integrated Stairway Release Interval and Evacuation Time Model for Multi-Story School Buildings

Mathematics and Computational Science – Team

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lemery SHS	Lemery	Rayan R. Bara-acal Rihan R. Bara-acal Alyssa R. Gubi	Mrs. Analie B. Atienza	ROADCASTS: Development of an Enhanced Multi-Model Spatiotemporal Framework for Forecasting High-Risk Road Accident Transitions in Lemery, Batangas Using Machine Learning and Markov Chain Modeling
2 nd	Agoncillo SHS	Agoncillo	Ronalyn S. Canela Fatima Amielle E. Chicote Aaron Kriz Vincent C. Enriquez	Engr. Radhcel M. Alvarez	Empirical Modeling and Predictive Regression Analysis of Solid Waste System in the Municipality of Agoncillo: A Strategic Blueprint for Ecological Intervention
3 rd	Alalum NHS	San Pascual	Princess Fiona M. Balmoria Sofhia Azhley De Chavez	Cherie B. Balentoza	EcoSIMI Development and Evaluation of a Multi-objective Computational Framework for Sustainable Solid Waste Management in Barangay Alalum, San Pascual Batangas



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Robotics and Intelligent Machines- Individual

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lucsuhin NHS	Calatagan	Sed C. Aspiras	Sarah Jane C. Capacia	Project SENSOR: Smart E-Cigarette and Nicotine Smoke Observation and Recognition System
2 nd	Lemery SHS	Lemery	Yvine E. Villavicencio	Engr. Rege C. Comia	AgRover: An Arduino-Based Mobile Robot with Real-Time Soil Moisture Sensing for Efficient Crop Management
3 rd	Balayan SHS	Balayan	Kyle Khelchie C. Valdez	John Aldrin R. Dimaala Jay-C D. Tibayan	HEAT: Hotspot Evaluation, Assessment and Tracking - An Infrared Robot for Early Overheating Detection in Workshops

Robotics and Intelligent Machines- Team

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lucsuhin NHS	Calatagan	Khloe Ann I. Manalo Faith D. Ligan Shanaia L. Lingat	Genesis D. Limoico Jeffrey R. Abad	BUZZTED: Development of an Automated Sensor System for Monitoring Class-Cutting and Trespassing
2 nd	Dagatan INHS	Taysan	Carl Angelo B. Adaya Hunnah S. Malaluan Kyle Benedict R. Rosanto	Rene D. Mistiola	Gagambot: A Smart AI-Powered Search and Rescue Robot For Earthquake Disasters
3 rd	Lemery SHS	Lemery	Reine Audrey M. Dimalig Maria Veanice P. Macatangay Stefanie Mae C. Suarez	John Mark E. Endaya	DrowseGuard: A Low-Cost, Real-Time Computer Vision-Based Driver Drowsiness Detection System with Driving-Duration Monitoring, Audible Alerts, and Emergency SMS Notification



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Science Innovation Expo- Individual

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lucsuhin NHS	Calatagan	Niño Ryan C. Balani	Jeffrey R. Abad Janice A. Bacit	SunVault: An Innovative Solar-Powered Grain Dryer for Reducing Post-Harvest Losses among Farmers
2 nd	Balayan SHS	Balayan West	Jonah Naomi C. Ilao	Michael A. Reyes Adrian Cole Balbago	FeatherVolt: Engineering a Keratin-ZnO Piezoelectric Nanogenerator Derived from Chicken Feathers Integrated into Power-Boards for Renewable Energy Harvesting
3 rd	Lemery SHS	Lemery	Maria AspherCay Jade A. Esporsado	Engr. Claudette M. De Claro	Algora: An Arduino-Based Real-Time Green Algae Monitoring System for Hydroponics with Mobile Application Integration

Science Innovation Expo- Team

Rank	School	Sub-office	Students	Coach	Research Title
1 st	Lucsuhin NHS	Calatagan	Paul Riley M. Praxedes Francis Neji B. Mendoza Jonas Miguel P. Sico	Jeffrey R. Abad Noemi T. Baldemor	Hydrotech Sprinklerbot: A Solar-Powered Remote-Controlled Robot
2 nd	Agoncillo SHS	Agoncillo	John Carlo D. Alteza Khayezelle Shayne L. Angulo Eauan Kobe J. Catena	Jestoni R. Enriquez	AeroShield: A Resource-Smart Aeroponic Innovation for Sustainable Crop Production
3 rd	Malvar SHS	Malvar	James Vincent V. Castillo Lheuz Ryle T. Gega Algabriel L. Sumadsad	Arriene B. Bartolome	HYRO: A Solar-Powered Smart Hybrid Aero-Hydroponics System with IoT-Based Nutrient and Water-Level Control



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Special Awards

Best Video Presentation

Category	School	Sub-office
Life Science - Individual	Lemery SHS	Lemery
Life Science - Team	Lemery SHS	Lemery
Physical Science - Individual	Balayan NHS	Balayan East
Physical Science - Team	Balayan SHS	Balayan East
Mathematics and Computational Science - Individual	Lemery SHS	Lemery
Mathematics and Computational Science - Team	Alum NHS	San Pascual
Robotics and Intelligent Machines - Individual	Lemery SHS	Lemery
Robotics and Intelligent Machines - Team	Dagatan INHS	Taysan
Science Innovation Expo - Individual	Balayan SHS	Balayan West
Science Innovation Expo - Team	Malvar SHS	Malvar

Best Poster

Category	School	Sub-office
Life Science - Individual	Batangas Province	Balayan East
Life Science - Team	Batangas Province	Balayan East
Physical Science - Individual	Balayan NHS	Balayan East
Physical Science - Team	San Isidro NHS (Malvar)	Malvar
Mathematics and Computational Science - Individual	Lucsuhin NHS	Calatagan
Mathematics and Computational Science - Team	Lemery SHS	Lemery
Robotics and Intelligent Machines - Individual	Lucsuhin NHS	Calatagan
Robotics and Intelligent Machines - Team	Lemery SHS	Lemery
Science Innovation Expo - Individual	Balayan SHS	Balayan West
Science Innovation Expo - Team	Malvar SHS	Malvar

Over-all Winner

Over-all 1 st Place	Lemery SHS
Over-all 2 nd Place	Lucsuhin NHS
Over-all 3 rd Place	Batangas Province Science HS



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