



Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF PANABO CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2025-0801

To : Chief of Curriculum Implementation Division (CID)
Education Program Supervisors
Public Schools District Supervisors
School Heads of Panabo City National High School, Rizal Elementary
School, and Panabo Central Elementary School SPED Center
Science Investigatory Project Coaches
All Concerned

Subject : **CONDUCT OF THE 2025 REGIONAL SCIENCE AND TECHNOLOGY
FAIR (RSTF)**

Date : November 21, 2025

Pursuant to the Regional Memorandum No. CLMD-2025-629, the 2025 Regional Science and Technology Fair (RSTF) will be conducted on November 27-29, 2025 at Sto. Tomas National High School, Tibal-og, Santo Tomas, Davao del Norte.

The Division Science and Technology Fair (DSTF) Ranks 1 and 2 shall represent the SDO Panabo City across all categories. Participants are found in the enclosure and shall be entitled to service credits in accordance with DepEd Order No. 53, s. 2003 entitled Updated Guidelines on the Grant of Vacation Service Credits to teachers. However, non-teaching personnel including management staff shall be given Compensatory Time-Off (CTO) per Civil Service Commission (CSC) and Department of Budget and Management (DBM) Joint Circular No. 2, s. 2024 on Non-Monetary Remuneration for Overtime Service Rendered, specific attention on Section 5.

Expenses incurred in the preparation of entry materials and during the conduct of the 2025 RSTF shall be charged to local funds and other sources, subject to the usual accounting and auditing rules and regulations.

Immediate dissemination of this Memorandum is desired.

For and in the absence of Schools Division Superintendent

JANWARIO E. YAMOTA

Chief ES, Curriculum Implementation Division
Officer-In-Charge

RELEASED

NOV 24 2025



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RECORDS SECTION SDO PANABO CITY
BY

List of Participants

Name	Position
SDO Personnel	
1. Jinky B. Firman PhD, CESO VI	SDS
2. Basilio P. Mana-ay, Jr., CESO VI	ASDS
3. Janwario E. Yamota	Chief ES – CID
4. Carolyn M. Arado	EPS – Math
5. Ylcy B. Manguilimotan	EPS – Science
Coaches/Observers	Station
1. Dhan Febmar Cajegas	PCNHS
2. Angelie Joy C. Portes	PCNHS
3. Cindy S. Valderama	PCNHS
4. Michael Jeff Gagabe	PCNHS
5. Ron Bryan Vertudes	PCNHS
6. Melody G. Baylon	Rizal ES
7. Filmar Galaura	Rizal ES
8. Emelita Flores	Rizal ES
9. Honeyline Depra	Rizal ES
10. Mary Dean P. Pascual	Panabo Central ESSC
11. Agnes Imelda C. Basañez	Panabo Central ESSC

Student-Researchers

Elementary Level	
Individual Category	
Prince Phalmer J. Senario	Cytotoxic and Growth-Inhibiting Effect of Malunggay pods (<i>Moringa oleifera</i>) on the Cellular Growth of Onion Roots (<i>Allium sepa</i>) and Germination of Mung Beans (<i>Vigna Radiata</i>)
Dazel Andrei T. Melencion	Harnessing Nature's Power: Lemongrass (<i>Cymbogon Citrus</i>) and Oregano (<i>Origanum Vulgare</i>)
Team Category	
Gelia Sedna C. Guanzon Tiffany Amber R. Nielsen Angel Janelle A. Vergara	Fat Content of Pest Gastropods: Potential Sources of Bioactive Compounds
Adriel Mahinay, Ruth Estelle Sales, Reann Lois Ybanez	Evaluating the Efficacy of Chili (<i>Capsicum frutescens</i>), Garlic(<i>Allium sativum</i>) and Baking Soda(<i>Sodium bicarbonate</i>) to Control Aphids (<i>Aphidoidea</i>) Infestation
Secondary Level	
Individual Category	
Life Science	
Yuan Floyd V. Estinopo	Power Pellets: Potency of Malunggay (<i>Moringa oleifera</i>) and Guava (<i>Psidium guajava</i>) Leaf Pellets



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	with <i>Bacillus subtilis</i> on Growth Performance of Broiler Chickens (<i>Gallus gallus domesticus</i>)
MC Livince N. Salimbagat	GELATINUS: Unlocking the Potential of Milkfish (<i>Chanos chanos</i>) Scale-Derived Gelatin as an Eco-Friendly Plant Biostimulant for Pechay (<i>Brassica</i> spp.)
Physical Science	
Angela Mae G. Flores	Eco-Board: Characterization of Cogon Grass (<i>Imperata cylindrica</i>) Fiberboards for Thermal Insulation, Sound Absorption, and Physical Properties
Franziska Zoe G. Cabal	HUYANI: Development of a Savonius - Type Vertical Axis Wind Turbine (VAWT) Equipped with an Andruino - Controlled Smart Monitoring Interface (SMI) for Sustainable Off - Grid Power Generation
Robotics	
	PanaNova AI: A Random Forest Regressor - Based Smart IoT Soil Sensing Device for Real-Time Biofertilizer Prescription in Banana Cultivation
	S.U.R.F: Smart Utilization of Recyclables for Free Wi-Fi — An IoT-Integrated Reverse Vending Machine Using Arduino and Orange Pi for Sustainable Recycling and Digital Inclusion
Innovation	
Johnrey Robles	An Arduino-Based Student Security System (PuPatrol): A Real-Time Arduino based School GPS Emergency Tracking System and The Enhance of Emergency Response in Urgent Situation
Mathematics and Computational Sciences	
Jai Angelo G. Dulay	Optimization of Resource-Constrained Deep Learning through Lightweight CNN Architecture for Binary Classification of Rice (<i>Oryza sativa</i>) Leaf Blast Disease
Sharifah Cate Mahinay	Trigonometric Solar Geometry Modeling for Quantifying Shadow Interaction and Heat Accumulation Between Adjacent Buildings in Panabo City Central Market
Team Category	
Life Science	
Leann Kelly C. Lumandas Janelle Mae B. Piodos Arys Kirby A. Sitoy	Development of a Bioplastic Mulch Film from Green Cavendish Banana (<i>Musa acuminata</i>) Starch Incorporated with Garlic (<i>Allium sativum</i>) Extract and Madre de Cacao (<i>Gliricidia sepium</i>) Leaf Extract for Natural Mollusk Pest Repellency
Iron Gabriel Escoza Celine Sause Jenesith Faith B. Paño	BIOCOLIA-X: In Vitro Analysis of the Antibacterial Activity and Quantification of Microbiostatic and Microbicidal Parameters of Guso (<i>Kappaphycus</i>)

	alvarezii) Ethanollic Biomass Extract Against Escherichia coli
Physical Science	
Francis Paul Anthony E. Esma Miguel Jose B. Parojinog Xyrus Jun Adrian Salomon	Harnessing Footsteps: Development of a Flexible Piezoelectric Mat for Micro-Energy Generation
Matt Garzil R. Geroy Shiloh May B. Reyes Janine G. Ruiz	Green Spark: Assessing the Feasibility of Taro (Colocasia esculenta) Stem Juice as an Alternative Source of Electrical Energy
Robotics	
Karl Wayne Culipapa Kelvin Khurt Villanueva Erve Joshua Pondevida	AQUAEXPLORER (Automatic Quality Utilization for Aquaculture Especially on Expanding Possibilities for Live, Observational and Reliant data to ensure Efficiency on Results): An IoT-Based Real-Time Water Monitoring System with Integration of SMS Alarm System for AquaCulture
Elyzael Racho Jezreel Yve Jotojot Kurt Jian Rodriguez	E.C.H.O: Exchange Communication through Haptic Operation- A Two-Way Communication Device Prototype for Deaf-Blind Individuals
Innovation	
Myles M. Calderon Jessa Atasha C. Indrina Kharll Vince Niño V. Cordilla	Living Bio-Composite Panels: Harnessing Oyster Mushroom (Pleurotus ostreatus) Mycelium with Beeswax Coating for Thermal and Moisture-Resistant Insulation
Andrie Phillip M. Castro Antoni Ylias Alagano Kitsweet R. Durac	DIY Solar-Powered Bamboo Electroculture Coil Stick: An Innovation for Enhancing Rapid Nursery Growth of Tomato (Solanum lycopersicum) in Small-Scale Gardens
Mathematics and Computational Sciences	
Kevin Ray G. Sabado Jhon-wil Brent C. Ronquillo Earl Jon M. Rodriguez	Addax Optimization Algorithm with Linear Regression Model for Predictive Optimization of Grab Fare System Under the Influence of Fuel Prices in Metro Davao, Cebu, and Manila
Clare Gamao Kaeczy Mhoenix Galaura Keziah Cheluj Gameng	Facial Recognition with Computer Vision and AI Deep Learning