



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

November 20, 2024

DIVISION MEMORANDUM
No. 505, s. 2024

**CORRIGENDUM TO DM NO. 474, S. 2024, SCIENTIA OLYMPICS CUM
RESEARCHERS' CAMP AND DIVISION SCIENCE & TECHNOLOGY FAIR 2024**

To: Assistant Schools Division Superintendent
Chief Education Supervisor
Education Program Supervisors
Public Schools District Supervisors/District In-charge
Public Elementary School Heads
Public and Private Secondary School Heads
District / Secondary / Integrated Schools Science Coordinators
All Others Concerned

1. Relative to the issuance of RM No 441, s. 2024, "Catch-Up In-Person Learning Days to Recover Lost School Days due to Typhoon in Region 2", this office through the Curriculum Implementation Division announces the schedule of the conduct of the 2024 SCIENTIA Olympics cum Researchers' Camp and Division Science & Technology Fair on the following dates and venues;

Level / Date	Venue	Activity
SECONDARY November 23-24, 2024	Quezon NHS Quezon District	SCIENTIA Olympics cum Researchers' Camp and Division Science & Technology Fair
ELEMENTARY December 7, 2024	Bambang Municipal Auditorium	Division Science & Technology Fair

2. In response to the department's Project BANGON-ARAL initiative, only the selected **Top 5 Finalists** per category in the Science Investigatory Projects shall present during the Science Congress of the division fair.
3. All participating schools in the ScIE-LAB competition – Search for the Most Functional Mobile Science Lab Cart – will showcase their entries during the event.
4. To ensure compliance with the policy on "Zero Disruption of Classes", coaches with teaching loads are requested to prepare their Instructional Plans before the approval of their travel authority. However, it is strongly encouraged that school heads or department heads serve as chaperons during the competition.



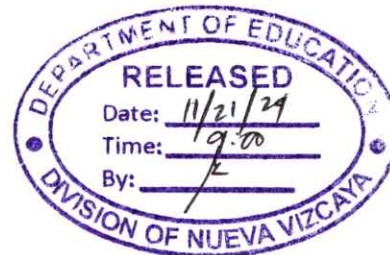
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5. Since the competition days fall on a weekend, the non-teaching participants shall be entitled to Compensatory Overtime Credit (COC) or Compensatory Time-Off per CSC and DBM Joint Circular No. 2, s. 2004, while teacher participants are entitled to Vacation Service Credits per Deped Order No. 53, s. 2003.
6. Enclosed is the List of the Top 5 Finalists in the different categories.
7. All other provisions in the issued memoranda shall remain.
8. Immediate dissemination of this memorandum is desired.


ORLANDO E. MANUEL PhD, CESO V
Schools Division Superintendent 



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2024 DIVISION SCIENCE & TECHNOLOGY FAIR

November 23-24, 2024
Quezon National High School

LIST OF TOP 5 FINALISTS

A) Physical Science - Individual Category

Code	Project Title
PSI-03	Extraction, Characterization, and Utilization of Fibers from Corn Husks, Banana, and Rambutan Peelings using varying Concentrations of NaOH
PSI-05	Molluscicidal Activity of <i>Tinospora Rumphii</i> Extract against <i>Pomacea Canaliculata</i>
PSI-06	Bridging Sustainability and Technology: Waste-Based Conductive Carbon Paint and Supercapacitors
PSI-08	Smart Solar-Generated Umbrella with Integrated Health Monitoring: Leveraging Renewable Energy for Data-Driven Health Checks
PSI-10	The Impact of Light Emitted by Colored Plastics on Tomato Plant Growth: An Investigation into the Photosynthetic Response and Morphological Changes

B) Physical Science – Team Category

Code	Project Title
PST-03	Performance Testing and Evaluation of Fiber Cement Boards Made from Waste Papers
PST-04	Alternator-Driven Energy System: Innovating Sustainable Solutions for Electricity Storage and Utilization
PST-05	Sustainable Eco-Friendly Herbicide: Allelopathic Potential of <i>Sphagneticola trilobata</i> Extract for Weed Control
PST-06	Project Geowand: Biogas Electricity Generation from Organic Waste through Anaerobic Digestion
PST-08	HYDROFLAME: Solar-Powered Oxyhydrogen Stove for Sustainable, Eco-Friendly Cooking



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C) Life Science – Individual Category

Code	Project Title
LSI-01	Different Light Spectrum on the Photosynthetic Activities of Hornwort (Ceratophyllum demersum): Advancing Artificial Photosynthesis Techniques
LSI-04	Ex-situ Optimization of Liquid Culture Condition for Hyphal and mycelial biomass production of <i>Florotus Ostrueatus</i> Using Nitro-Polysaccharide concoctions
LSI-05	Unveiling the Allelopathic Effects of <i>Mirabilis Jalapa</i> on Root Growth of <i>Allium Cepa</i> : A Promising Strategy for Sustainable Weed Management
LSI-06	Wound Healing Potential of Topical Ointment Derived from Mayana (<i>Plectranthus scutellarioides</i>) Leaf Extract and its Antibacterial Effects Against <i>Escherichia coli</i>
LSI-10	Wound Healing Effect of an Ointment Made from Kitkitiwit (<i>Passiflora foetida</i>) Extraction Albino Rats (<i>Rattus norvegicus</i>)

D) Life Science – Team Category

Code	Project Title
LST-03	Growth and Yield Performance of Pechay in Hydroponics Using the Different Concentrations of Organic Nutrients Solution
LST-04	Encapsulation of Microwave-Assisted Biosynthesized Nanomaterial NY CHITOSAN-SODIUM TPP from KATKATIWIWIT for its Biological & Antioxidant Properties
LST-06	Bio-Fabricated Ag-ZnO BIMETALLIC NANOPARTICLES from HAGONoy LEAF & Its ADSORPTIVE POTENTIAL to IRON IONS
LST-09	Examining the Effects of Serpentina Leaves, Malunggay Leaves, and Betel Nut as Natural Dewormers on Weight Enhancement in Breed Broiler Chickens
LST-16	Investigating Soil pH Levels and their Impact on Pechay Growth



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E) Innovation – Individual Category

Code	Project Title
IE-I-01	Alternative Charcoal Briquettes Made from Cow Manure and Sawdust of Mahogany and Gmelina: Evaluating the Performance in terms of Heat Output, Burn
IE-I-04	A Scientific Exploration of Consumer Acceptability and Optimal Infusion Times for Tsaang Gubat (Ehretia microphylla) Tea Blends
IE-I-06	Sustainable Bike with SANA ALL: Sensors and Automatic Navigation Alerts with Liner Layering
IE-I-07	Pesticidal Efficacy of Bay Leaves (Laurus Nobilis) Cinnamon (Cinnamomum Verum) and Lemon (Citrus Limon) Against Termites
IE-I-08	Effectiveness of Banana (Musa acuminata) Stem Extract as Germination Enhancer for Eggplant (Solanum melongena) Seeds

F) Innovation – Team Category

Code	Project Title
IE-T-01	Comparing the NPK Levels of BioViridare (Homemade) and Commercial Organic Foliar Fertilizer
IE-T-02	Germanica
IE-T-06	PIEZO: Power Innovation for an Eco-Friendly and Zero-Waste Optimization
IE-T-07	The Efficacy of Varying Concentrations of Pandan (Pandanus Amaryllifolius) and Peppermint Leaf (Mentha piperita L.) Extract as a Pesticide Against Blattella
IE-T-09	Development and Evaluation of a Proximity Sensor Device for Enhancing Navigation in Individuals with Sensory Impairments



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G) ROBOTICS – Individual Category

Code	Project Title
RIM-I-01	VERTIGROW: Vertical Hydroponic Greenhouse Innovation with Arduino Sensing Mechanism
RIM-I-02	PASTIPEN: Pen-Rewarding Reverse Vending Machine as Plastic Bottle Collection Receptacle
RIM-I-06	Smart Sprout: An Arduino-Powered Automated Plant Watering System with Nutrient Checking and Real time User
RIM-I-09	A Robotic Drip System Utilizing Soil Moisture-Based Control: A way to optimize water consumption
RIM-I-10	SMART: (Sensor, Minimalize floating Attachment, Automatic Mechanism Registry, vital Signs, Time and Transportation Improvement) Ambulance Stretcher.

H) ROBOTICS – Team Category

Code	Project Title
RIM-T-02	Development of Automatic Dry waste Sorter System Using Proximity Sensor
RIM-T-06	FRESH: Future-Ready Environmental System for Hydroponics
RIM-T-07	Project SOLSEED: Solar-Powered Robot that Aims to Develop a simple but Effective autonomous planting Method for General Agriculture
RIM-T-08	SHREDIT: Shredding Hub for Recycling Economic Disposable Incentives Technology
RIM-T-10	Auto-Bot Wheelchair: Automated Mechanism, Unique Medical Kit, Tough to Fire and Water with one-time vital Signs



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