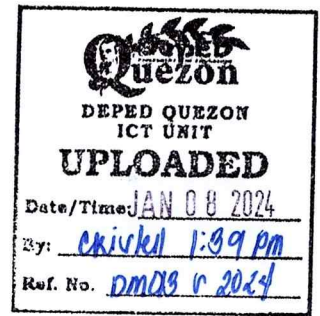




Republic of the Philippines
Department of Education
Region IV-A
SCHOOLS DIVISION OF QUEZON PROVINCE



03 January 2024

DIVISION MEMORANDUM
DM No. D13, s. 2024

WINNERS IN THE DIVISION SCIENCE AND TECHNOLOGY FAIR SY 2023 - 2024

To: Assistant Schools Division Superintendents,
Public Schools District Supervisors,
Public and Private Elementary and Secondary School Heads,
All Others Concerned

1. This Office congratulates the winners in the Division Science and Technology Fair SY 2023-2024 held last November 18, 2023. The following participating schools are likewise acknowledged for leading in the development of teachers and learners in the enhancement of Science process skills through the conduct of Science Investigatory Projects SIP.

Name of School	Department Head / Cooridantor	Principal
Quezon National High School	Areil R. Viñas	Jessie V. Vasquez
Lutucan National High School	Edgar G. Yabut	Feliza V. Quevada, EdD
Dr. Maria Pastrana National High School	Eliza D. Melinas	Mario A. Guevarra
Paaralang Sekundarya ng Lucban Integrated High School	Caroline Vivares	Rey Nanong
Atimonan Comprehensive National High School	Lucrecia L. Escritor	Rene L. Portades
Gumaca National High School	Imelda lakian	Teodosio Lakian
Lopez National Comprehensive High School	Juliana M. Arit	Marina R. Abueva
Tagkawayan National High School	Maria Senen Glorioso	Gelyn De Castro

2. Please refer to the Enclosure for the names of the winners in the different categories.
3. Immediate dissemination of this Memorandum is desired.


ROMMEL C. BAUTISTA, CESO V
Schools Division Superintendent

cid-ims/ceao/01/03/2024

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Enclosure to DM No. 013, s. 2024

WINNERS IN THE DIVISION SCIENCE AND TECHNOLOGY FAIR SY 2023-2024

Category	Rank	Project Title	Proponents	Coach	School	Principal
Life Science Individual	1	Synergized Activity of Makahiya (<i>Mimosa pudica</i>) and Guava (<i>Psidium guajava</i>) Leaves Extract against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> , causative Pathogens of Surgical Site Infection	Kyle Mejin L. Valles	Jeric M. Ilaio	Quezon NHS	Jessie V. Vasquez
	2	Antibacterial Property of <i>Amaranthus spinosus</i> (Uray) against <i>Escherichia coli</i>	Kim Tristan A. Zurbano	Keya Zia Pitero	Lopez National Comprehensive High School	Marina R. Abueva
	3	Taro Corm <i>Colocasia Esculenta</i> as an Alternative Starch in Bioplastic	Andrey Benedict P. Estrope	Samboy D. Niala	Tagkawayan NHS	Gelyn De Castro
Life Science Team	1	Organic Mulch out of Coconut Coir (<i>Cocos nucifera</i>) and Fish Scales (Dermal denticles) as Growth Enhancer for Lettuce (<i>Lactuca sativa</i>) Cultivation	Emmanuelle Danielle Lairen V. de los Santos, Shamyca P. Deodores, Kelsey Daphne Gaile L. Pascual	Jeric M. Ilaio	Quezon NHS	Jessie V. Vasquez
	2	Comparative Study on the Bactericidal Activity of Banaba (<i>Lagerstroemia speciosa</i>) and Serpentina (<i>Rauwolfia serpentina</i>) Leaves Extract against Uropathogenic <i>Escherichia coli</i>	Flor Glorienne M. Agito, Michaela R. Lagrosa, Trixie L. Mirabuena	Jeric M. Ilaio	Quezon NHS	Jessie V. Vasquez
	3	Fermented Saba Banana (<i>Musa acuminata</i> × <i>balbisiana</i>) Peels Extract and Sugar-Enriched Rice Wash as Moss Removing Solution	Ramela Joyce B. Buison, Aljinhro D. Santoalla, Sealthiel Rei M. Villarazo	Rianne Karla M. Gandia & Cierrie Ann B. De Luna	DR. Maria Pastrana NHS	Marioa A. Guevarra
	4	The effectiveness of <i>mimosa pudica</i> (makahiya) extract as nebulizer medicine for smoke-induced asthma	Louise Angielyn C. Capanzana, Lanze Rui G. Estrada, Sophia Jane B. Ibita	Rodney L. Labarro	Lopez National Comprehensive High School	Marina R. Abueva
Physical Science Individual	1	Utilization of Facemask, Oyster shell, and Coconut Husk as Green Building Aggregate Materials for Concrete Hollow blocks Production	James R. Recalde	Jeric M. Ilaio	Quezon NHS	Jessie V. Vasquez
	3	Investigating The Efficacy Of Cocosambong In Wound Healing	Kevin Carl B. Evangelista	Joane Ramielle T. Marcelo	Lopez National Comprehensive High School	Marina R. Abueva

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	2	Utilization of Elemi Tree (Canarium luzonicum) Sap and Candlenut (Aleurites moluccanus) Oil as Home Heating Oil	Jhazmine Joy J. Maaliw	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
Physical Science Team	1	Valorization of Discarded Facemasks into Eco-Friendly Blocks Reinforced with Plastic Polymers	Yuriah Ivy P. Crisolago, Jerssine Grace L. Lapid, Aliyah Janel J. Binungcal	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	2	Portable Arduino-Based Temperature Regulating Device for Food Steaming Purposes	Alyssandra Sophia M. Emralino, Precious Jezeniah L. Ringor, Miguel Franz M. Tan	Joey Lyne D. Datinggaling	Lutucan Integrated National High School	Feliza B. Quevada Ed. D
	3	Utilization Of Rice Husk Using Trichoderma Harzianum Though Anaerobic Digestion To Produce Gas For Cooking	Elaiza Mae C. Castro, Ysabelle Anne N. Francisco, Lourine Chenel B. Masaga	Finaciel D. Mendoza	Lopez Comprehensive NHS	Marina R. Abueva
Robotics and Intelligent Machines Team	1	Arduino-based Automated Solar Powered Ultraviolet Light Bait Device against Oriental Fruit Flies Crop Infestation	Johannes Larence Enriquez, Josh Gabriel A. Simbulan, Cyrus Miguel P. Villadiego	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	2	ExDaTrIM: Expiration Date Tracker and Inventory Management Application for Sari-Sari Stores	Jhames Rianne G. Razo, Klarc Joseph L. Peregrin, Raph Breiner R. Daleon	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	3	BinBot: Automated Solar Powered Sensing Trash Bin for Waste Segregation	Kein Andrei Francisco, Jhon Anthony Orgena, Edriell Juben Vilar	Angelo C. Angeles	Lopez National Comprehensive High School	Marina R. Abueva

Robotics and Intelligent Machines Individual	1	Automatic Self-Propelled Rehydration Robot using ATX2 Microcontroller Board, Resistive Moisture Sensor, and IR Sensors	Lhander M. Magalona	Jarry M. Mecantina	Gumaca NHS	Teodosio F. Lakian
	2	FIRE-CAST: Fire Safety through Integrated Smoke and Flame Detection Systems with Alarm, Call, and SMS Technology	Krezca Nicolaine A. O uendo	Harold Bert L. Distor	DR Pastrana NHS	Mario A. Guevarra
	3	Automated Night Light Control System using Solar Panel and LEDs	Leia M. Mendoza	Jaymar Z. Oliveros	Gumaca NHS	Teodosio F. Lakian
National Science and Innovation Expo Individual	1	Cassava (Manihot esculenta) Starch-Based Plantable Package Filter Material	Jonas Romasanta	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	2	BIQUAD LINKER: Portable Signal Booster for Areas with Poor Signal Reception	Kyle Allen Gabriel V. Reyes	Angelo C. Angeles	Lopez National Comprehensive High School	Marina R. Abueva

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	3	LGC FILTER: Lemon Grass (Cymbopogon citratus) and Coconut Shell (Cocos nucifera) Charcoal as Exhaust Filter for Motorcycle	Rueann Hudsua O. Mejorada	Gina P. Francia	Atimonan National Comprehensive High School	Rene L. Portades
National Science and Innovation Expo Team	1	Sinulid: Sustainable Thread Out Of High-Density Polyethylene Plastic Bottles For Textile Production Product: Tools That Produce Thread Out Of High-Density Polyethylene Plastic Bottles	Ralph Timothy D. Carandang, Ruth Christi Elaine R. De Villa, Lerize Danielle M. Jalbuena	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	2	Multifunctional Portable Lamp Bug Zapper With Refillable Octenol As Mosquito Attractant And Killer	Benedick L. Alabado, Andrea Louise G. Ilaos, Kendrex Jairus R. Rodriguez	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	3	Aidea: An Artificial Intelligence Assistant in Messenger	Jade Maurice M. Bedia, Jerome D. Edica, Jasmine T. Lopamia	Dominador W. Sunga II	Tagkawayan NHS	Gelyn De Castro
Mathematical Science - Individual	1	Mathematical Analysis of Erythrocyte, Age, Height, Weight, and Body Mass Index in Relation to Leukocyte Count as Determinant of Bacterial Infections	Christian Great M. Lavarro	Jeric M. Ilaos	Quezon NHS	Jessie V. Vasquez
	2	Computation for Constant and Inconstant Approximate Water Level	Arik Jehan Mendoza	Sarah A. Amparo	Gumaca NHS	Teodosio F. Lakian
Mathematical Science - Team	1	Mathematics Teachers' Evaluation on Interactive Recycled Bottle Caps as Multiplication Devices for Grade Two Pupils	Irish D. Albay, Alexis Aleli Dianne H. Napao, Crischall Mike G. Briones	Samboy D. Niala	Tagkawayan NHS	Gelyn De Castro

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**BEST PRESENTER IN THE DIVISION SCIENCE AND TECHNOLOGY FAIR
SY 2023-2024**

Category	Rank	Project Title	Proponents	School
Life Science - Individual	Best Presenter	Synergized Activity of Makahiya (<i>Mimosa pudica</i>) and Guava (<i>Psidium guajava</i>) Leaves Extract against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> , causative Pathogens of Surgical Site Infection	Kyle Mejin L. Valles	Quezon NHS
Life Science - Team	Best Presenter	The effectiveness of <i>mimosa pudica</i> (makahiya) extract as nebulizer medicine for smoke-induced asthma	Louise Angielyn C. Capanzana, Lanze Rui G. Estrada, Sophia Jane B. Ibita	Lopez National Comprehensive High School
Physical Science - Individual & Team Category	Best Presenter	Portable Arduino-Based Temperature Regulating Device for Food Steaming Purposes	Alyssandra Sophia M. Emralino, Precious Jezeniah L. Ringor, Miguel Franz M. Tan	Lutucan Integrated National High School
Mathematical & Computational Science - Individual	Best Presenter	Mathematical Analysis of Erythrocyte, Age, Height, Weight, and Body Mass Index in Relation to Leukocyte Count as Determinant of Bacterial Infections	Christian Great M. Lavarro	Quezon NHS
		Computation for Constant and Inconstant Approximate Water Level	Arik Jehan Mendoza	Gumaca NHS
National Science Innovation Expo - Individual	Best Presenter	LGC FILTER: Lemon Grass (<i>Cymbopogon citratus</i>) and Coconut Shell (<i>Cocos nucifera</i>) Charcoal as Exhaust Filter for Motorcycle	Rueann Hudsua O. Mejorada	Atimonan National Comprehensive High School

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National Science Innovation Expo -Team	Best Presenter	AIda: An Artificial Intelligence Assistant in Messenger	Jade Maurice M. Bedia, Jerome D. Edica, Jasmine T. Lopamia	Tagkawayan NHS
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**BEST DISPLAY BOARD IN THE DIVISION SCIENCE AND TECHNOLOGY
FAIR SY 2023-2024**

PROJECT TITLE	PROPONENT	SCHOOL
FIRE-CAST: Fire Safety through Integrated Smoke and Flame Detection Systems with Alarm, Call, and SMS Technology	Krezca Nicolaine A. O uendo	DR Pastrana NHS

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