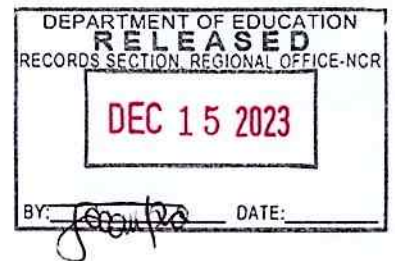




Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION



REGIONAL MEMORANDUM

ORD-2023- 1298

TO : **SCHOOLS DIVISION SUPERINTENDENTS**

SUBJECT : **Winners of the 2023 Regional Science and Technology Fair (RSTF)**

DATE : December 11, 2023

The Department of Education-National Capital Region (DepEd-NCR) through the Curriculum and Learning Management Division (CLMD) announces the winners of the 2023 Regional Science and Technology Fair (RSTF) held on December 1-2, 2023 at Muntinlupa National High School, Division of Muntinlupa City.

This Office recognizes the support of Muntinlupa City, led by Mayor Rozzano Rufino "Raffy" B. Biazon, and the Schools Division Office of Muntinlupa City, under the leadership of Dr. Evangeline P. Ladines, Schools Division Superintendent, for graciously hosting the 2023 RSTF. We also express our gratitude to Our Lady of Lourdes Hospital, particularly President Paul Richard Camangian, for their support throughout the event.

Special thanks go to the NCR Schools Division Superintendents, Assistant Schools Division Superintendents, Curriculum Implementation Division Chiefs, Mathematics and Science Division Education Program Supervisors, NCR Research Advisers Association, advisers, and trainers who played pivotal roles in ensuring the success of the 2023 RSTF.

The list of awardees is enclosed herewith for your reference:

- Enclosure 1: Special Awards
- Enclosure 2: Finalists
- Enclosure 3: Top 5 Winners
- Enclosure 4: Lourdes Choice Award
- Enclosure 5: NSTF Qualifiers



Address: Misamis St., Bago Bantay, Quezon City
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Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION

The first-place winners in Life Science, Physical Science, Robotics and Intelligent Machine, Mathematics and Computational Sciences and Science Innovation Expo both individual and team category will be the NCR's NSTF Qualifiers.

Immediate dissemination of this Memorandum is desired

JOCELYN DR ANDAYA
Director IV

Encls:

As stated

Reference:

DepEd Order 21,s.2019, DM 068,s.20223

To be indicated in the Perpetual Index

under the following subjects:

CELEBRATIONS AND FESTIVALS CONTESTS LEARNING AREA, Science STUDENTS SCHOOLS



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Enclosure 1 Special Awards

A. Shoutout

Place	SDO	Science and Math Supervisors	Superintendent
First	Quezon City	Dr. Joel P. Feliciano and Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Secilla, CESO V
Second	Valenzuela City	Marilyn Soriano and Maria Lea Q. Prondo	Dr. Noel Bagano
Third	Manila	Remylinda T. Soriano and Merie Gerlie V. Capiral	Dr. Rita Riddle, CESO V
Fourth	Pasig City	Dr. Teresita P. Tagulao and Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V
Fifth	Muntinlupa City	Lambert Quesada and Armida Oblinada	Dr. Evangeline Ladines CESO V

B. Poster Making

Place	SDO	Science and Math Supervisors	Superintendent
First	Las Piñas City	Gina Aguitez and Laprizal Castueras	Dr. Loreta B. Torrecampo, CESO V
Second	Makati City	Michael Lee and Hernan Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V
Third	Muntinlupa City	Lambert Quesada and Armida Oblinada	Dr. Evangeline Ladines CESO V
Fourth	Caloocan City	Jennifer Mondoy and Emitterio Macarubbo	Dr. Jenilyn Rose B. Corpuz
Fifth	Paranaque City	Emma Cunanan and Corazon Javier	Nerissa L. Losaria, CESO V

C. Display Board

Display Board: Life Science Individual								
Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Josiah Christopher Q. Cruz	Quezon City Science High School	Anticancer Potential Of Molave (<i>Vitex Parviflora Juss.</i>) Crude Leaf Ethanolic Extract Against Lung Cancer Cells (A549 And GLO1)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V

Second	Caloocan City	Jasrel Philippe T. Bulilan	Caloocan City Science High School	The Larvicidal Activity Of Ethanolic Extracts Of Water Hyacinth (Eichhornia Crassipes) Leaves Against Aedes Aegypti	Suzeth U. Dizon	Philip A. Villamor	Dr. Emiterio D. Macarubbo	Dr. Jenilyn Rose B. Corpuz
Third	Pasig City	Joanna Christi V. Jornaes	Pasig City Science High School	Incorporating <i>Cymbopogon Sp.</i> and <i>Ocimum basilicum</i> Extracts In Creating Antimicrobial Coating For Cotton Cloth	Engr. Lady Kynnia D. Garado	Charlie O. Fababaer	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V
Fourth	Muntinlupa City	Angela Louise D. Marcelo	Muntinlupa Science High School	Spinach (Spinacia Oleracea), Cabbage (Brassica Oleracea), And Arugula (Erica Glomiflora) Extracts On The Blood Clotting Rate Of Mice (Mus Musculus)	Mark Archel O. Javier	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline Ladines CESO V
Fifth	Navotas City	Diana Rose D. Mucho	Navotas National Science High School	Moringa Oleifera Leaf Extract Decreases Caffeine-Induced Insomnia In Sleep-Wake Behaviors Of Drosophila Melanogaster	Joseph Gabriel G. Cruz	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

Display Board: Life Science Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Caloocan City	Dien Fabrice D. Estigoy, Krista Rey V. Balintec, Janelle Andrea B. Rodriguez	Caloocan National Science And Technology High School	Atomic Biosorption Potency Of Rhizoclonium Sp. (Cladophorales, Chlorophyta) And Calcium Carbonate (Caco3) From Eggshell Wastes On Copper II (Cu+2)	Corazon Trinidad A. Bautista	Dr. Priscila T. Catanauan	Dr. Emiterio D. Macarubbo	Dr. Jenilyn Rose B. Corpuz
Second	Paranaque City	Sophia Blessie D. Mangao, Josiah Hendrik B. Mascarina	Paranaque Science High School	Antifungal Activity of Malunggay (Moringa Oleifera) Extract Against Aspergillus Fumigatus	Ma. Theresa G. Baita	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Third	Las Pinas City	Jill Adrienne M. Bonsol, Jana Loreal L. Orenday, Chelsea Lyanne N. Sim	Las Piñas City National Science High School	An Assessment Of Water Quality Of Prinza Dam As A Potential Use For Irrigation	Shiela Linn D. Banate	Eleanor V. Honrales	Ms. Laprizal P. Castuecas	Dr. Loreta B. Torrecampo, Ceso V
Fourth	Pasig City	Princess Chloe R. Bonifacio, Shilo Havanalyn P. Campomanes, Vince Danielle R. Mansueto	Pasig City Science High School	Enhanced Antibacterial Activity of Wound Dressing Using Biosynthesized Gold And Copper Nanoparticles	Engr. Lady Kynnica D. Garado	Charlie O. Fababaer	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V
Fifth	Makati City	John Elijah V. Banaag, Julienne Marie S. Galdo, Franchezka Nicole Anunciacion	San Isidro National High School	Acceptability Of Coconut Flour As A Healthy Substitute To All-Purpose Flour In Banana Bread	Luningning Dela Cruz	Noly B. Francisco	Hernan L. Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V

Display Board: Physical Science Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Kyle Irish Mae T. Pleyto	Quezon City Science High School	Revitalizing Carbonates: An Innovative Solution To Recycling Concrete Waste Using Irradiated Concrete Into Calcium Hydroxide-Based (Ca(OH) ₂) Carbon Capturing Technology	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Second	Las Pinas City	Rafael P. Quilling III	Las Pinas National Science High School- Senior High School	The Utilization Of Xanthan Gum Polysaccharide And Cooking Oil Waste In Las Piñas To Create An Abrasion Resistant Rubber Mat	Phillina Beatrix S. De Guzman, RMT	Eleanor V. Honrales	Ms. Laprizal P. Castuecas	Dr. Loreta B. Torrecampo
Third	Muntinlupa City	Zachary D. Bustos	Muntinlupa Science High School	Evaporative Composite Cooling Blanket From Abaca (Musa Textilis) Fibers And Rice Hull (Oryza Sativa) For Post-Harvest Storage Of Fresh Tomatoes (Solanum Lycopersicum)	Engr. Chandler Erickson A. Cachuela	Florante C. Marneto	Dr. Armida S. Obinada	Dr. Evangeline P. Ladines

Fourth	Navotas City	Jashley Shannel Asilo	Navotas National Science High School	Peanut (<i>Arachis Hypogaea</i> L.) Shell Decreases Beta-Lactam Amoxicillin Concentration In Water.	Don King O. Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Fifth	Makati City	Lean Chad A. Masungsong	Maximo Estrella Senior High School	Utilization Of Terminalia Catappa (Talisay) Leaves As A Coagulant In The Initial Treatment Of Surface Water In The Pasig River	Chary Vida R. Cervantes	Edwin I. Salviejo	Mr. Herman L. Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V

Display Board: Physical Science Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Muntinlupa City	Maria Annika II R. Espinosa, Clarisse C. Fernandez, Mari Dominique A. Bernudez	Muntinlupa National High School	Utilization Of Mangga (<i>Mangifera Indica</i>) Leaves For Paper Production		Dr. Antonio B. Rocha	Dr. Armida S. Oblinada	Dr. Evangeline Ladines CESO V
Second	Quezon City	Anne Gabrielle M. Rosaldo, Maiara Mercurie G. Marcelo, Wyatt Alfonso M. De Belen	Quezon City Science High School	Classification Of Electron Beam-Irradiated Papaya (<i>Carica papaya</i>) Using Neural Networks	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carlecn S. Sedilla, CESO V
Third	Taguig City and Pateros	Vince Kristan L. Arcilla, Zandre C. Managbanag, Aprelle Rowena F. Simora	Senator Renato "Compañero" Cayetano Memorial Science And	Adsorption Of Hexavalent Chromium (Cr (VI)) In Aqueous Solution Using	Jinnaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez

Fourth	Malabon City	Yuanne Mickaela F. Ambal, Marielle Angeli B. Lobrinno, Asiah Mae T. Montemor	Technology High School	Surface Functionalized Chitosan-Coated Cogon Grass (Imperata Cylindrica L.) Fiber The Utilization Of Ethanolc Leaves Extract Of Musa Acuminata X Balbisiana Colla As A Fire- Retardant Enamel Paint Additive S.A.G.E.:	Mylene J, Aguinaldo	Teresita C. Dalmacio	Dr. Manolo C. Davantes Jr. Ph.D	Dr. Cecille G. Carandang, CESO VI
Fifth	Navotas City	Maria Janaila G. Rojo, Lincoln Xeree B. Traquiña, Cassandra A. Ingeniero	Navotas National Science High School	Sustainable Dye- Adsorbent For Greener Environment-- Combined Paper Wastes And Commercial Coconut Activated Carbon (Ac) As An Adsorbent Paper Matrix For Methylene Blue And Aniline (Jobus) Dyes	Don King O. Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

Display Board: Robotics and Intelligent Machine Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Navotas City	Francis James A. Ronidel	Navotas National School	Rapid: Raspberry Pi For Aquatic Invasive Plant	Karl Erniell D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

Second	Paranaque City	Alfonso Jose N. Cirio	Science High School	Detection And Alert System Via Internet Of Things (Iot) And Yolov5 Automatic Pedestrian Accident Detector (Autopad): An Iot-Based Pocket-Sized Device For Instant Alert On Possible Pedestrian Accidents	Jayson R. Tiempo	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Third	Pasig City	Adelle Maxime B. Mendoza	Rizal High School	Seismosafe-E: Seismic Event Intensity Sensor With Monitoring Operation System Using Arduino For Effective Evacuation	Eileen L. Del Rosario	Mr. Richard T. Santos	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V
Fourth	Muntinlupa City	Benedict John R. Caperocho	Muntinlupa Science High School	A-Casac: Aeroponics With Cooling And Automatic	Engr. Chandler Erickson A. Cachuela	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline Ladines CESO V

Fifth	Manila	Aliyah Kristine Q. Enriquez	Cayetano Arellano High School	Synchronizing System For Indoor Environments Using Arduino	Virgilio B. Escasinas Jr.	John Butch P. Locara	Ms. Merie Gerlie V. Capiral	Dr. Rita E. Riddle			

Display Board: Robotics and Intelligent Machine Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Paranaque City	Paul Ayden M. Beloy, Janina Valerie S. Villarta	Paranaque Science High School	An Analysis Of Lettuce (Lactuca Sativa) After Being Grown In An Iot-Based Aeroponics System In Comparison To A Soil-Grown System	Jayson R. Tiempo	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Second	Quezon City	Kiara Cheska D. David Sofia Kristinne Ysabel S. Soledad, Selwyn D. Bracamonte	Quezon City Science High School	S.A.R.H.: A Soft Actuated Robotic Hand for Range of Motion Therapy on the Rehabilitation of Hand Function for Monoparesis Patients	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Third	Caloocan City	Zakura Marie Alisia, Krizzia Mae M. Moreno,	Cielito Zamora Senior High School	Automated Cargo Claw And Rail System (Accrs) In Container		Dr. Alvin D. Angus	Dr. Emiterio D. Macarubbo	Dr. Jenilyn Rose B. Corpuz, Ceso V

Fourth	Malabon City	Jennylyn A. Rebanco Alyanna C. Bunag, Kent Louis V. Ganiron, Kaye-Em Redarmy R. Marcilla	Malabon National High School	Transportation In Seaports Floodfind: An IoT-Based Flood Monitoring System Using Arduino Mega Trashure: Reverse Vending Machine Converting Plastic Bottles Into Pointing System For Prepaid Load With Iot Database	Jhon Ivan R. De Jesus Olivia Q. Martin	Dr. Manolo C. Davantes Jr. Dr. Cecille G. Carandang	
Fifth	Las Pinas City	Lhyndelle Angela G. Ramos, Lovelia L. Gaerlan, Shanta Shayne P. Martinez	Las Pinas City National Science High School		Eleanor V. Honrales Lyneth Z. Cabria	Ms. Laprizal Castuecas Dr. Loreta B. Torrecampo, Ceso V	

Display Board: Mathematics and Computational Sciences Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Math Supervisor	Schools Division Superintendent
First	Las Pinas City	Joshua R. Sacedon	Las Piñas City National Science High School	Driving The Future: Cost-Efficiency Comparison Between Traditional And Modern Puvs Through Algebraic Equations Hands: A Transcription Tool For Basic Filipino Sign Language Using Hand Analytic Network Detection System (Image Processing)	Warlita C. Arzaga	Eleanor V. Honrales	Gina L. Aguitez	Dr. Loreta B. Torrecampo
Second	Pasay City	Denmark Jan T. Dapul	Pasay City South High School		Glenn Arwin M. Bristol	Emilia L. Tolentino	Mr. Rogelio S. Junio	Dr. Joel T. Torrecampo

Third	Valenzuela City	Leandro S. Asunan	Valenzuela City School Of Mathematics And Science	Geometry Of Taxicab Parabolas: Identifying The Relationship Between The Latus Rectum-Focal Distance Ratio And Directrix In Non-Slant Taxicab Parabolas	Dioscorro G. Lumogdang III	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr.Noel D. Bagano
Fourth	Navotas City	Ezekiel Jay R. Mata	Navotas National Science High School	Mathematical Formulation Of Linear Attenuation Coefficient: Exploring Energy-Range Relationships	Jerome P. Padillo	Russell P. Samson	Dr. Alberto J. Tiangco	Dr. Meiton P. Zurbano
Fifth	Muntinlupa City	James Rommel B. Guevara	Muntinlupa Science High School	A* (A-Star) Algorithm With Manhattan Distancing And Geographic Information System (Gis) To Prompt Efficient Public Commuting Routes: Muntinlupa City As The Paradigm Municipality	Geraldine S. Gonzales	Fiorante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangelina Ladines CESO V

Display Board: Mathematics and Computational Sciences Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Math Supervisor	Schools Division Superintendent
First	Pasay City	Lorraine Beatriz C. Agamata, May Relyn S. Depaz, Althea I. Rodriguez	Pasay City National Science High School	Forecasting The Monthly Farmgate Price Of Poultry Chickens Using Sarima Model	Abegail A. Villanueva	Rouell A. Santero	Mr. Rogelio S. Junio	Dr. Joel T. Torrecampo
Second	Las Pinas City	Kathrina Marie R. Ocampo, Takao John A. Dollente, Janella Erin F. Gutierrez	Las Pinas City National Science High School	Geolocation Database Forecasting For Internet Users Using Television White Space	Angelito P. Kilala	Eleanor V. Honrales	Dr. Gina L. Aguitez	Dr. Loreta B. Torrecampo
Third	Quezon City	Kirsten Geraldine C. C. Esteban, Kim D. Agot, Lozano L. Cruz, Jr.	Quezon City Science High School	A Mathematical Investigation on the Maximum Number of Intersections of k Segments Equally Dividing each Vertex Angle of a Triangle	Ms. Allyn R. Mendez	Ms. Carolyn C. Simon	Dr. Joel P. Feliciano	Ms. Carleen S. Sedilla, CESO V
Fourth	Muntinlupa City	Thony John T. Peralta, Ralph Andre H. Halili, Kyle Xedryc R. Medina	Muntinlupa Science High School	Dijkstra'S Algorithm For Path Optimization Of Emergency Evacuation Route For Deped Instructional Buildings	Zarina T. Pabelonia	Muntinlupa Science High School	Dr. Armida S. Oblinada	Dr. Evangeline Ladines CESO V

Fifth	Valenzuela City	John Rafael S. De Dios, Ethan Samuel R. Estabillo, Zoe Gwyneth P. Sarmiento	Valenzuela City School Of Mathematics And Science	Dragon Curve: Transforming Collatz Conjecture Through Visual Coefficient Modification	Jayvee P. Orejola	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr. Noel D. Bagano
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Display Board: Science Innovation Expo Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Navotas City			Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application For Breaking Language And Speech Communication Barriers Among Filipino Citizens	Karl Ermiel D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Second	Muntinlupa City	Kylie Q. Cruz	Navotas National Science High School	Production, Characterization, And Properties Of Suckermouth Sailfin Catfish (Pterygoplichthys Pardalis) Entrails As An Alternative Feedstock For Biodiesel Blends				
Third	Manila	Sean Conrad B. Lababo Maria Janina Bien V. Calma	Muntinlupa Science High School Victorino Mapa High School	Project Watch	Mark Archei O. Javier Barbara V. Calma	Florante C. Marneto Robert P. Velasquez	Dr. Armida S. Oblinada Ms. Merie Gerie V. Capiral	Dr. Evangeline Ladines CESO V Dr. Rita E. Riddle

Fourth	Las Pinas City	Glendyll R. Frias	Las Piñas City National Science High School	Project Cairfil: A Research Study And Experiment On A New Design For Air Filters And Substitute For Carbon Filters Using Pulverized Cocos Nucifera (Coconut) Shell Briquettes	Shiela Linn D. Banate	Eleanor V. Honrales	Ms. Laprizal P. Castueras	Dr. Loreta B. Torrecampo
Fifth	Pasig City	Tyron James D. Sister	Buting Senior High School	The Efficacy Of Buta-Buta (Excoecaria Agallocha), Dumb Cane (Dieffenbachia), And Malabar Spinach Berries (Basella Alba L.) As A Biomimetic Self-Defense Ink Spray	Ginalyn P. Bramaje	Ma Amparo G. Silvea	Ms. Liza A. Alvarez	Dr. Sheryll T. Gayola

Display Board: Science Innovation Expo Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Pasig City	Angel Denmisse B. Esguerra, Marcia Ghaye A. Marcelo, Mia Ivahna C. Villafania	Pasig City Science High School	C47 AsthMask: Life Mask with Installed Inhaler For Asthmatic Patients Filtered With Taro Leaves	Engr. Lady Kynnia D. Garado	Mr. Charlie O. Fababaer	Ms. Liza A. Alvarez	Dr. Sheryll T. Gayola
Second	Paranaque City	Eulheinne A. Lopez, Anna A. Domine, Charles Christian P. Gopengco	Paranaque Science High School	Particle Board Production Using Bamboo (Bambusa Schreb), Tobacco (Nicotiana	Ma. Theresa G. Balta	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria

Third	Taguig City and Pateros	Shannen Elyse M. Puga, Anica Myiel H. Timogtimog, Meleen T. Constantino	Taguig Science High School	Tabacum) Stalks, and Gimelina (Gimelina Arborea) Wood with Cement X-flaust Scrubber: The Use Of Activated Charcoal As A Solution To Vehicle Smoke Emissions	Janeth G. Mamansag	Donald S. Bruno	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Fourth	Muntinlupa City	Jillian R. Santos, Riffa Antonia D. Rasalan, Manuel Issiah A. Rito	Muntinlupa Science High School	Manila Clam (Venerupis Philippinarum) Shells As Fillers On Biocomposite Denture Base Acrylic Resins	Lady Edlenill J. Tavu	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangelina P. Ladines
Fifth	Pasay City	Loren Jessica L. Mangahas, Sofia Ezekielle M. Carampatana, Marc Wayne L. Clemente	Pasay City West High School	Synthesized Rigid Polyurethane Foam As Potential Headset Microphone Minimal Noise Reducer Using Coconut (Cocos Nucifera) Husk Derived Biopolyol	Ralph C. Malacad	Mr. Agapito Teodoro N. Manaog	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo

Best Presenter

Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Life Science Individual	Navotas City	Diana Rose D. Mucho	Navotas National Science High School	Moringa Oleifera Leaf Extract Decreases Caffeine-Induced Insomnia In Sleep-Wake Behaviors Of	Joseph Gabriel G. Cruz	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

Life Science Team	Pasay City	Heiza Adeth G. Banaag, Rochelle N. Terrado, Simon Gabriel Villa	Pasay City National Science High School	Micropropagation Of The Endangered Philippine Teak (Tectona Philippinensis) By Organogenesis Using Nodal Segments	Shannen Dorothy P. Gomez	Rouell A. Santero	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo
Physical Science Individual	Paranaque City	Steffi D. Entrada	Paranaque National High School-Main	Tomato (Lycopersicon Esculentum) Lycopene Extraction With Coconut Oil As A Sun Protection Factor Enhancer In A Formulated Sunscreen Lotion	Marylene P. Salvatera	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Physical Science Team	Taguig City and Pateros	Vince Kristan L. Arcilla, Zandre C. Managbanag, Aprelle Rowena F. Simora	Senator Renato "Compañero" Cayetano Memorial Science And Technology High School	Adsorption Of Hexavalent Chromium (Cr (VI)) In Aqueous Solution Using Surface Functionalized Chitosan-Coated Cogon Grass (Imperata Cylindrica L.) Fiber	Jimnaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Robotics and Intelligent Machine Individual	Quezon City	Angelica A. Prellegera	Quezon City Science High School	Arduino-Based Autonomous Navigation To Detect Solid Metals For Ground Contamination Recovery (ANDAR)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Robotics and Intelligent Machine Team	Quezon City	Ram Fonzy S. Bobis, Teodor L. Escobido, Trixie Paulyne M. Manuel	Holy Spirit National High School	Time Scheduler And Earthquake Alarm System - TSEQAS Using EV3 Module	Mr. Diosdado C. Espiritu Jr.	Dr. Arnel L. Cañero	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Cedilla, CesO V

Mathematics and Computational Sciences Individual	Muntinlupa City	James Rommel B. Guevara	Muntinlupa Science High School	A* (A-Star) Algorithm With Manhattan Distancing And Geographic Information System (Gis) To Prompt Efficient Public Commuting Routes: Muntinlupa City As The Paradigm Municipality	Geraldine S. Gonzales	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V
Mathematics and Computational Sciences Team	Pasig City	Carl A. Basco, Ma. Michelle Angeline C. Sagrado	Pasig City Science High School	Trick Or Treat: Using Machine Learning With Python To Detect Scam Sms Messages	Joseph S. Lara	Charlie O. Fababaer	Dr. Teresita P. Tagulao	Mrs. Sheryll T. Gayola, CESO V
Science Innovation Expo Individual	Navotas City		Navotas National Science High School	Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application For Breaking Language And Speech Communication Barriers Among Filipino Citizens	Karl Erniell D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Science Innovation Expo Team	Quezon City	Kylie Q. Cruz Mark Louis Y. Tiongco, Fiona Margarete S. Ayeras, Lahlaine Joy M. Esparrago	Quezon City Science High School	A Solar Powered Smart Traffic Light System For Emergency Vehicles Prioritization Using AI-Enhanced Machine Learning Framework	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V

Enclosure 2 Finalist

Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Life Science Individual	Caloocan City	Jasrel Philippe T. Bullian	Caloocan City Science High School	The Larvicidal Activity Of Ethanolic Extracts Of Water Hyacinth (Eichhornia Crassipes) Leaves Against Aedes Aegypti	Suzeth U. Dizon	Philip A. Villamor	Dr. Emiterio D. Macarubbo	Dr. Jenilyn Rose B. Corpuz
	Las Pinas City	Sofia Astrud P. Rogado	Las Piñas National High School-Senior High School	In Silico Analysis Of Curcuminoids And "Curcumin" Analogues As Epidermal Growth Factor Receptor (Egfr) Inhibitor: A Novel Approach For Prostate Cancer Therapy	Margian Erica S. Taguas	Ignacio L. Son, Jr.	Ms. Laprizal Castueras	Dr. Loreta B. Torrecampo
	Mandaluyong City	Shen B. Vidal	Mataas Na Paaralang Neptali A. Gonzales	Coagulation Properties Of Sweet Potato Leaves (Ipomoea Batas And Water Spinach (Ipomoea Aquatica)	Eva B. Deocareza	Dr. Corazon R. Regino	Ms. Roxane Villanueva	Dr. Aurelio G. Alfonso
	Navotas City	Diana Rose D. Mucho	Navotas National Science High School	Moringa Oleifera Leaf Extract Decreases Caffeine-Induced Insomnia In Sleep-Wake Behaviors Of	Joseph Gabriel G. Cruz	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

					Drosophila Melanogaster							
Paranaque City	Jasmin Victoria B. Bonifacio	Paranaque National High School-Main	A Comparative Study Of The Efficacy Between Rice Husk And Corn Cob As Substrates For Hydroponic Gardening	Princeville S. Lanza	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losarta					
Quezon City	Margalo Amos V. Cerro	Ramon Magsaysay (Cubao) High School	Biomass And Carbon Stock Assessment Of Trees In Bernardo Park, Kamuning, Quezon City, Philippines	Jeanne Marie Gabrielle C. Tenchavez	Arliana A. Arboleda	Dr. Maria Pilar O. Capalongan	Carleen S. Sedilla					
Taguig City and Pateros	Charisse M. Macapagal	Sen. Renato "Compañero" Cayetano Memorial Science And Technology High School	Anti-Angiogenic And Vascular Irritancy Screening Of Purple Corn (Zea Mays L.) Cob Using In Ovo Duck Chorioallantoic Membrane Assay	Gleza Lynn N. Asañas	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez					
Quezon City	Josiah Christopher Q. Cruz	Quezon City Science High School	Anticancer Potential Of Molave (<i>Vitex Parviflora Juss.</i>) Crude Leaf Ethanollic Extract Against Lung Cancer Cells (A549 And GL01)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V					

Finalist								
Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Life Science Team	Malabon City	Analyn B. Cantonjos, Trisha A. Ancheta, Mary Laine C. Avila	Tinajeros National High School	Effectiveness Of Caraway (Carum Carvi) Seed Extract As Pesticide Against Luzon Point Headed Termites (Nasutitermes Luzonicus)	Shamerie S. Villabeza	Ma. Victoria R. De Gulan	Dr. Manolo Davantes Jr.	Dr. Cecille G. Carandang
	Manila	Kier Alexandre G. Malonzo, Gio Paolo P. Rioflorido, Precious Lucky C. Salandanan	Mariano Marcos Memorial High School	Utilization Of Kombucha Tea-Soby (Symbiotic Culture Of Bacteria And Yeast) As An Alternative For Bio-Leather		Consolacion K. Naanep	Ms. Merie Gerlie Capiral	Dr. Rita E. Riddle, CESO V
	Muntinlupa City	Mark Daniel R. Calixto, Geronimo Gabriel T. Natividad, Iii, Ma. Danielle F. Asurto	Muntinlupa Science High School	Sustainable Aquaculture System: Okara As An Alternative Dietary Protein Source For Giant Freshwater Prawns (Macrobrachium Rosenbergi, De Man 1879)	Mark Archei O. Javier	Florante C. Marneto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V
	Navotas City	Saireen Jan C. Oliveros, Venice Angelica A. Crampatana, Carlo T. Timbas	Navotas National Science High School	Bruguiera Sexangula (Pototan) Inhibits Angiogenesis Via Chick Chorioallantoic Membrane (Cam) Assay	Don King Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

Pasay City	Heiza Adeth G. Banaag, Rochelle N. Terrado, Simon Gabriel Villa	Pasay City National Science High School	Micropropagation Of The Endangered Philippine Teak (<i>Tectona Philippinensis</i>) By Organogenesis Using Nodal Segments	Shannen Dorothy P. Gomez	Rouell A. Santero	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo, CESO VI
Pasig City	Princess Chloe R. Bonifacio, Shilo Havanalyn P. Campomanes, Vince Danielle R. Mansueto	Pasig City Science High School	Enhanced Antibacterial Activity of Wound Dressing Using Biosynthesized Gold and Copper Nanoparticles	Engr. Lady Kynnia D. Garado	Charlie O. Fababaer	Liza A. Alvarez	Mrs. Sheryl T. Gayola, CESO V
Taguig City and Pateros	Felicia R. Amido, Alannah Mae D. Gayanoche, Jamina Alexa N. Mendez	Senator Renato Compañero Cayetano Memorial Science And Technology High School	Isolation And Screening Of Rhizobium In Sitaw (<i>Vigna unguiculata</i> Ssp. <i>Sesquipedalis</i>) Nodules For Potential Biocontrol Against Smut (<i>Sporisorium Scitamineum</i>) In Sugarcane (<i>Saccharum officinarum</i> L.)	Jimnaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Quezon City	Alyanna Marie S. S. Iliw-Iliw, Lucia Faye T. Tagupa, Mark Jared V. Teng	Quezon City Science High School	Herbicidal Effects Of Rice Straw Extract (<i>Oryza sativa</i> L.) On The Seedling Viability Of Itchgrass (<i>Rotifloella cochinchinensis</i>)	Mr. Earl Francis C. Merilles	Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Dr. Carleen S. Sedilla

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Physical Science Individual	Las Pinas City	Rafael P. Quilling III	Las Pinas National Science High School- Senior High School	The Utilization Of Xanthan Gum Polysaccharide And Cooking Oil Waste In Las Piñas To Create An Abrasion Resistant Rubber Mat	Phillina Beatrice S. De Guzman, Rmt	Eleanor V. Honrales	Ms. Laprizal Castueras	Dr. Loreta B. Torrecampo
	Makati City	Lean Chad A. Masungsong	Maximo Estrella Senior High School	Utilization Of Terminalia Catappa (Talisay) Leaves As A Coagulant In The Initial Treatment Of Surface Water In The Pasig River	Charry Vida R. Cervantes	Dr. Edwin I. Salviejo	Mr. Hernan Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V
	Mandaluyong City	Rhianah S. Sulit	City Of Mandaluyong Science High School	Absorption Of Cellulose And Antimicrobial Properties In Pandan (Pandanus Amaryllifolius) Leaf Fiber As A Potential Plant-Based Alternative To Superabsorbent Polymer (Sap) In Commercially Available Disposable Diapers	Ms. Crizel J. Peligrino	Ms. Gigi G. Bullanday	Ms. Roxane Villanueva	Dr. Aurelio G. Alfonso
	Manila	Karl Ellison O. Zurbano	Cayetano Arellano High School	Feasibility Of Taal Volcanic Scoria As Radiation Attenuating Property For	Neil Juvert F. Valentino	John Butch P. Locara	Ms. Merie Gerlie V. Capiral	Dr. Rita E. Riddle

					Construction Aggregates						
Navotas City	Jashley Shannel Asilo	Navotas National Science High School			Peanut (Arachis Hypogaea L.) Shell Decreases Beta-Lactam Amoxicillin Concentration In Water.	Don King O. Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano		
Paranaque City					Tomato (Lycopersicon Esculentum) Lycopene Extraction With Coconut Oil As A Sun Protection Factor Enhancer In A Formulated Sunscreen Lotion						
	Steffi D. Entrada	Paranaque National High School-Main				Marylene P. Salvatera	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria		
Taguig City and Pateros					Mixed Dye Extracts Of Red Onions (Allium Cepa L.), Red-Fleshed Pitaya Peels (Selenicereus Costaricensis), And Sweet Potato Leaves (Ipomoea Batatas L.) As Photosensitizers In Dye-Sensitized Solar Cells						
	Gwyn Nicole L. Dulongbinte	Sen. Renato "Compañero" Cayetano Memorial Science And Technology High School									
Quezon City	Kyle Irish Mae T. Pleyto	Quezon City Science High School			Revitalizing Carbonates: An Innovative Solution To Recycling Concrete Waste Using Irradiated Concrete Into	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar Capalongan	Ms. Carleen S. Sedilla, CESO V		

					Calcium Hydroxide-Based (Ca(OH) ₂) Carbon Capturing Technology				
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Finalist									
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Physical Science Team	Mandaluyong City	Rhayanna Grey S. Jumawid, Loren Joyce B. Doydora	City Of Mandaluyong Science High School	Feasibility Of Tamarind (Tamarindus Indica) Seed Husks As Potential Adsorbents For Phytoremediation Of Lead And Copper From Pasig River	Ms. Crizel J. Peligrino	Ms. Gigi G. Bullanday	Ms. Roxane Villanueva	Dr. Aurelio G. Alfonso	
	Manila	Albancia, James Rey F. Labonete, Ma. Faye N. Perucho, Jasmine A	Raja Soliman Science and Technology High School	Molecular Docking of Moringin, A Stable Isothiocyanate from Moringa oleifera and TRPA1 (Ligand-Free) with Bound Calcium for Visualization of Potential Non-Covalent Activation through Ankyrin Repeat-17 Domain Neighboring Residues	KENT-ZELLARY ENRIQUEZ		Ms. Merie Gerlie Capiral	Dr. Rita E. Riddle	
	Marikina City	Francesca Noreen L. Arco, Chelle-Mae H. Bucay, Mihaila	Sta. Elena High School	Comparative Evaluation Between Zinc Oxide - Thyme Oil And Zinc Oxide - Grease Coatings Applied On	Christian A. Alarte	Dr. Jeffrey C. Trinidad	Ms. Jessica Mateo	Dr. Cynthia L. Ayles	

		Clare C. Del Valle			Hydrophobic Mirrors.					
Navotas City		Maria Janaila G. Rojo, Lincoln Xeree B. Traquina, Cassandra A. Ingeniero	Navotas National Science High School		S.A.G.E.: Sustainable Dye Adsorbent For Greener Environment-- Combined Paper Wastes And Commercial Coconut Activated Carbon (Ac) As An Adsorbent Paper Matrix For Methylene Blue And Aniline (Jobus) Dyes	Don King O. Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton Zurbano	
Pasig City		Valerie Y. Quillao, Tristan James C. Melad, Charles Andrei B. Espinola	Rizal Experimental Station And Pilot School Of Cottage Industries		Renewitech: Recycled Energy Network With Economical Wi-Fi Integration And Technology For Environmental Conservation	Andrew F. Bajana	Ma. Victoria M. Cuervo	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V	
Taguig City and Pateros		Vince Kristan L. Arcilla, Zandre C. Managbanag, Aprelle Rowena F. Simora	Senator Renato "Compañero" Cayetano Memorial Science And Technology High School		Adsorption Of Hexavalent Chromium (Cr (Vl)) In Aqueous Solution Using Surface Functionalized Chitosan-Coated Cogon Grass (Imperata Cylindrica L.) Fiber	Jimmaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez	
Valenzuela City		Sebastian Ray S. Bautista, Kyla Louise J. Demition, Rob Ryan N. Ramos	Valenzuela City School Of Mathematics And Science		Utilization Of Water Fern (Salvinia Molesta D.S. Mitch.) Extract To Improve	Airene Lois Catuiza	Jaime S. De Vera Jr.	Dr. Maria Lea Q. Prondo	Dr. Noel Bagano	

					Corrosion Inhibition Of Metal Coatings						
Quezon City	Anne Gabrielle M. Rosaldo, Maiara Mercurie G. Marcelo, Wyatt Alfonso M. De Belen	Quezon City Science High School			Classification Of Electron Beam-Irradiated Papaya (Carica Papaya) Using Neural Networks	Earl Francis C. Merilles	Carolyn C. Simon	Dr. Maria Pilar Capalongan		Dr. Carleen S. Sedilla, CESO V	

Finalist											
Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent			
Robotics and Intelligent Machine Individual	Makati City	Ignacio Emil N. Lucina	Bangka High School	Agricultural Auto-Care System With Sins Alert For Water Level Monitoring In Aeroponic Tomato (Solanum Lycopersicum) Vegetation: Controlling Humidity, Lighting, Temperature, And Water Level As Sensing Device	Mariou E. Balaoing	Lutgardo P. Cruz	Mr. Hernan L. Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V			
	Malabon City	Jack Patrich Q. Abude	Panghulo National High School	The Efficiency Of A.B.E.R (Arduino-Based Enrollment And Registrar) System In Managing Panghulo	Mariel G. De Jesus	Julius D. Jaylo	Dr. Manolo Davantes Jr.	Dr. Cecille G. Carandang			

					National High School Files							
Marikina City	Justine Eumir D. Aquino	Malanday National High School			The Efficiency Of An Improvised White Cane With An Ultrasonic Sensor And Buzzer For Visually Impaired	Mark Andrew Yague	Nerissa S. Estrella	Ms. Jessica S. Matco			Dr. Cynthia L. Ayles	
Navotas City	Francis James A. Ronidel	Navotas National Science High School			Rapid: Raspberry Pi For Aquatic Invasive Plant Detection And Alert System Via Internet Of Things (Iot) And YOLOv5	Karl Erniel D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Aguito			Dr. Meliton Zurbano	
Paranaque City	Alfonso Jose N. Cirio	Paranaque Science High School			Automatic Pedestrian Accident Detector (Autopad): An Iot-Based Pocket-Sized Device For Instant Alert On Possible Pedestrian Accidents	Jayson R. Tiempo	Ruel A. Grafil	Dr. Corazon Javier			Dr. Nerissa Losaria	
Pasig City	Adelle Maxime B. Mendoza	Rizal High School			Seismosafe-E: Seismic Event Intensity Sensor With Monitoring Operation System Using Arduino For Effective Evacuation	Eileen L. Del Rosario	Richard T. Santos	Ms. Liza A. Alvarez			Mrs. Sheryll T. Gayola, CESO V	

	Valenzuela City	Noaxy S. Cabalfin	Valenzuela National High School	The Effectiveness Of Identification Regulated Access Of Water (ldraw) As Tool In Promoting Water Conservation And Plastic Waste Reduction	Arvin C. Austria	Christopher J. Delino	Dr. Maria Lea Q. Prondo	Dr. Noel D. Bagano
	Quezon City	Angelica A. Prellgera	Quezon City Science High School	Arduino-Based Autonomous Navigation To Detect Solid Metals For Ground Contamination Recovery (Andar)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar Capalongan	Ms. Carleen S. Sedilla, CESO V

Finalist

Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Robotics and Intelligent Machine Team	Makati City	Seven Anthony B. Mangubat, Shaunn Jared M. Bercasio, Kealoha Arguelles	Bangkal High School	Project A.R.V.M.I.S. (Arduino-Based Reverse Vending Machine In Schools) To Improve Solid Waste Management Program	Judelyn M. Alviro	Lutgardo P. Cruz	Mr. Hernan Apurada	Ms. Ma. Evalou Concepcion Agustin, CESO V
	Malabon City	Alyanna C. Bunag, Kent Louis V. Ganiron, Kaye-	Malabon National High School	Floodfind: An IoT-Based Flood Monitoring System Using Arduino Mega	Jhon Ivan R. De Jesus	Olivia Q. Martin	Dr. Manolo C. Davantes Jr.	Dr. Cecille G. Carandang

	Em Redarmy R. Mancilla									
Marikina City	Rhoanna Shane R. Malabaguio, Jasmine Denise C. Del Pilar, Andreia Lourisse A. Basi	Marikina Science High School	Augmented Reality In Education: Development And Validation Of Replikar As Learning Tool And Interactive Android Application	Mark Anthony F. Casimiro	Joseph T. Santos	Ms. Jessica S. Matco	Dr. Cynthia L. Ayles			
Muntinlupa City	John Reyn Santino R. Villaester, Rowel D. Grate, Joshua Miguel Quioco	Muntinlupa National High School	G.A.M.A.I (Global Assistant For Medical Aid And Intelligent Care)		Dr. Antonio B. Rocha	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V			
Pasig City	Julienne Mikyla P. Cruz, Mervin Joshua C. Bautista, Luke Samuel B. Legaspi	Rizal High School	Air-Tect: Air Quality Monitoring Device For Concentrations Of Methane (Ch4), Carbon Monoxide (Co), Carbon Dioxide (Co2), Sulfur Dioxide (So2), Temperature And Humidity Using Arduino	Eileen L. Del Rosario	Richard T. Santos	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V			
Quezon City	Ram Fonzy S. Bobis, Teodor L. Escobido, Trixie Paulyn M. Manuel	Holy Spirit National High School	Time Scheduler And Earthquake Alarm System - TSEQAS Using Ev3 Module	Mr. Diosdado C. Espiritu Jr.	Dr. Arnel L. Cañero	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Cedilla, CesO V			

Valenzuela City	Angeline A. Alpino, Faustine John A. Calimag, Jerson B. Estrada	Malinta National High School	Pyroguard: Assessing The Functionality Of An Arduino-Based Heat-Responsive Fire Suppression Technology With Rfid Access Control For Type A And B Fire	Chealand Dela Cruz	Edwin L. Valera	Dr. Maria Lea Q. Prondo	Dr. Noel D. Bagano
Quezon City	Kiara Cheska D. David, Sofia Kristinne Ysabel S. Soledad, Selwyn D. Bracamonte	Quezon City Science High School	S.A.R.H.: A Soft Actuated Robotic Hand for Range of Motion Therapy on the Rehabilitation of Hand Function for Monoparesis Patients	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar Capalongan	Ms. Carleen S. Sedilla, CESO V

Finalist Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Mathematics and Computational Sciences Individual	Caloocan City	Jan Angelo R. Roncales	Caloocan City Science High School	A Graphical Case Study On The Tricycle Transportation Network In Zone 6, Caloocan City Using Directed Centrality Measures	Guiller Jobert H. Suarez	Philip A. Villamor	Engr. Jennifer B. Mondoy	Dr. Jenilyn Rose B. Corpuz
	Manila	Yorihc K. Tabiara	Manila Science High School	Simson Line Duality 2: Complete Quadrilaterals	Julie Anne O. Ramirez	Manolo G. Peña III	Ms. Merie Gerlie V. Capiral	Dr. Rita E. Riddle

Muntinlupa	James Rommel B. Guevara	Muntinlupa Science High School	A* (A-Star) Algorithm With Manhattan Distancing And Geographic Information System (Gis) To Prompt Efficient Public Commuting Routes: Muntinlupa City As The Paradigm Municipality	Geraldine S. Gonzales	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V
Navotas City	Ezekiel Jay R. Mata	Navotas National Science High School	Mathematical Formulation Of Linear Attenuation Coefficient: Exploring Energy-Range Relationships	Jerome P. Padillo	Russell P. Samson	Dr. Alberto J. Tiangco	Dr. Meliton P. Zurbano
Pasay City	Denmark Jan T. Dapul	Pasay City South High School	Hands: A Transcription Tool For Basic Filipino Sign Language Using Hand Analytic Network Detection System (Image Processing)	Glenn Arwin M. Bristol	Emilia L. Tolentino	Mr. Rogelio S. Junio (Dr. Maripaz T. Mendoza)	Dr. Joel T. Torrecampo, CESO VI
Pasig City	Edgar Gerard L. Soliva	Rizal High School	The Patterns Generated in Modified Pascal's Triangles with Ordered Pair Entries (A,B) in	Joshua Elijah P. Gerona	Richard T. Santos	Dr. Teresita P. Tagulac	Mrs. Sheryll T. Gayola, CESO V

Taguig City and Pateros	Alexander R. Doronilla	Taguig Science High School	Preliminary Investigation On Coordinates And Circles Of "Fibonacci Spiraling Points"	Kristoffer Paulo Ramirez	Donald S. Bruno	Dr. Mirasol Rongavilla	Dr. Alejandro Ibanez					
Valenzuela City	Leandro S. Asunan	Valenzuela City School Of Mathematics And Science	Geometry Of Taxicab Parabolas: Identifying The Relationship Between The Latus Rectum-Focal Distance Ratio And Directrix In Non-Slant Taxicab Parabolas	Dioscorro G. Lumogdang III	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr. Noel D. Bagano					

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Mathematics and Computational Sciences Team	Las Pinas City	Kathrina Marie R. Ocampo, Takao John A. Dollente, Janella Erin F. Gutierrez	Las Pinas City National Science High School	Geolocation Database Forecasting For Internet Users Using Television White Space	Angelito P. Kilala	Eleanor V. Honrales	Dr. Gina L. Aguitez	Dr. Loreta B. Torrecampo			
	Mandaluyong City	Matthew Allan S. Fernandez, Kyle Christian M. Cloma,	City Of Mandaluyong Science High School	Lumos: Lighting Using Mathematical Optimization System In Non-	Mr. John Francis S. Cultura	Ms. Gigi G. Bullanday	Mr. Restituto Rodelas	Dr. Aurelio G. Alfonso, CESO VI			

	Wyndle Wyne R. Calansingin		Reflective Rectangular Prism Rooms With An Upright Floor-Level Cubic Object					
Muntinlupa City	Thony John T. Peralta, Ralph Andre H. Hallii, Kylhe Xedryc R. Medina	Muntinlupa Science High School	Dijkstra'S Algorithm For Path Optimization Of Emergency Evacuation Route For Deped Instructional Buildings	Zarina T. Pabelonia	Muntinlupa Science High School	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V	
Pasay City	Lorraine Beatriz C. Agamata, May Relyn S. Depaz, Althea I. Rodriguez	Pasay City National Science High School	Forecasting The Monthly Farmgate Price Of Poultry Chickens Using Sarima Model	Abegail A. Villanueva	Rouell A. Santero	Mr. Rogelio S. Junio (Dr. Maripaz T. Mendoza)	Dr. Joel T. Torrecampo, CESO VI	
Pasig City	Carl A. Basco, Ma. Michelle Angeline C. Sagrado	Pasig City Science High School	Trick or Treat: Using Machine Learning with Python To Detect Scam Sms Messages	Joseph S. Lara	Charlie O. Fababaer	Dr. Teresita Tagulao	Mrs. Sheryll T. Gayola, CESO V	
Taguig City and Pateros	Myke Lawrence F. Ricerra, Den O'Nelle S. Dujali, Angelo Justine G. Zaraspe	Sen. Renato "Compañero" Cayetano Memorial Science And Technology High School	Longest Diagonal Relationship (Ldr): A Mathematical Quest On Area And Nature Of Regular Convex		Quinn Norman O. Arreza	Dr. Mirasol Rongavilla	Dr. Alejandro G. Ibañez	

	Valenzuela City	John Rafael S. De Dios, Ethan Samuel R. Estabillo, Zoe Gwyneth P. Sarmiento	Valenzuela City School Of Mathematics And Science	Dragon Curve: Transforming Collatz Conjecture Through Visual Coefficient Modification	Jayvee P. Orejola	Jaime S. De Vera Jr.	Ms. Marilyn Soriano	Dr. Noel D. Bagano
	Quezon City	Kirsten Geraldine C. C. Esteban, Kim D. Agot, Lozano L. Cruz, Jr.	Quezon City Science High School	A Mathematical Investigation on the Maximum Number of Intersections of k Segments Equally Dividing each Vertex Angle of a Triangle	Ms. Allyn R. Mendez	Ms. Carolyn C. Simon	Dr. Joel P. Feliciano	Ms. Carleen S. Sedilla, CESO V

Finalist								
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Science Innovation Expo Individual	Manila	Maria Janina Bien V. Calma	Victorino Mapa High School	Project Watch	Barbara V. Calma	Robert P. Velasquez	Merie Gerlie V. Capiral	Dr. Rita E. Riddle
	Marikina City	Leoj Auguston T. Ong	Malanday National High School	Efficiency Of Multifunctional Solar Charging Storage Box	Donna Heizel F. Lopez	Nerissa S. Estrella	Ms. Jessica S. Mateo	Dr. Cynthia L. Ayles

Muntinlupa City	Sean Conrad B. Lababo	Muntinlupa Science High School	Production, Characterization, And Properties Of Suckermouth Sailfin Catfish (Pterygoplichthys Pardalis) Entrails As An Alternative Feedstock For Biodiesel Blends	Mark Archei O. Javier	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines
Navotas City			Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application For Breaking Language And Speech Communication Barriers Among Filipino Citizens	Karl Ernie D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Paranaque City	Kylie Q. Cruz	Navotas National Science High School	Printed Metalized Biaxially Oriented (Bopp) Film As A Thermal Insulator	Princeville S. Lanza	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Pasay City	Alyanna B. Belista	Paranaque National High School-Main	Time-Programmed Current Terminating Arduino Uno-Based Device With Relay Module In Solving Phantom Load	May Ann D. Romano	Emilia L. Tolentino	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo, CESO VI
Taguig City and Pateros	Francis James Thaddeus M. Armendi	Pasay City South High School	Stair Assistance For Everyone (S.A.F.E.)	Annalyn B. Noble	Quinn Norman O. Arceza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
	George Lean C. Tizon	Senator Renato Compañero Cayetano Memorial					

		Science And Technology High School										
	Quezon City	Alfred S. Tadena	Quezon City Science High School	Arduino Uno For Power Interruption Adjunct To Flood Water Detection (APAW)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V				

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Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent				
Science Innovation Expo Team	Malabon City	Joana B. Rolette, Denver G. Gerez, Szhanne M. Mesina	Concepcion Technical Vocational School	Assessing The Ability Of Prototype Atomic (Automated Teachers' Organizing Material For Instructional Convenience) As A Mobile, Compact And Multi-Functional Device	Jenny Cris R. Siazon	Nenita J. Rivera	Dr. Manolo Davantes Jr.	Dr. Cecille G. Carandang				
	Marikina City	Luis Benedict V. Schied, Cyflor Averhyle P. Dordas, Michael Sealtiel G. Rivera	Marikina High School	Home Laundry Wastewater Recycling Facility	Emil Constantine Buguina	Maribeth C. Rosario	Ms. Jessica S. Matco	Dr. Cynthia L. Ayles				
	Muntinlupa City	Jillian R. Santos, Riffa Antonia D. Rasalan,	Muntinlupa Science High School	Manila Clam (Venerupis Philippinarum) Shells As Fillers On Biocomposite	Lady Edlenill J. Tavu	Florante C. Marmeto	Dr. Armida S. Obinada	Dr. Evangeline P. Ladines				

		Manuel Issiah A. Rito		Denture Base Acrylic Resins					
Navotas City	Rednelyn Joy C. Chua, Shane Dyl Kate A. Cuña, Patricia Denise T. Santos	Filemon T. Lizan Senior High School	Development Of A Bio-Based Sealant Using Chanos Chanos (Milkfish) Fish Glue And Goat Dung Ash	Engr. Francis Paul B. Dela Cruz	Irwin S. Jopio	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano		
Paranaque City	Eulheinne A. Lopez, Anna A. Domine, Charles Christian P. Gopengco	Paranaque Science High School	Particle Board Production Using Bamboo (Bambusa Schreb), Tobacco (Nicotiana Tabacum) Stalks, and Gimelina (Gimelina Arborea) Wood with Cement	Ma. Theresa G. Baita	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria		
Pasig City	Angel Dennisse B. Esguerra, Marcia Ghaye A. Marcelo, Mia Ivahna C. Villafania	Pasig City Science High School	C47 Asthmak: Life Mask With Installed Inhaler For Asthmatic Patients Filtered With Taro Leaves	Engr. Lady Kynthia D. Garado	Charlie O. Fababaer	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V		
Taguig City and Pateros	Shannen Elysse M. Puga, Anica Myiel H. Timogtimog, Meleen T. Constantino	Taguig Science High School	X-Haust Scrubber: The Use Of Activated Charcoal As A Solution To Vehicle Smoke Emissions	Janeth G. Mamansag	Donald S. Bruno	Ms. Marivic T. Almo	Dr. Alejandro G. Ibañez		
Quezon City	Mark Louis Y. Tiongco, Fiona Margarette S. Ayeras,	Quezon City Science High School	A Solar Powered Smart Traffic Light System For Emergency	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms... Carleen S. Sedilla, CESO V		

	Lahlaine Joy M. Esparrago	Vehicles Prioritization Using AI-Enhanced Machine Learning Framework				
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Enclosure 3 Top 5 Best Research Projects

Top 5 Best Research Projects: Life Science Individual								
Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Josiah Christopher Q. Cruz	Quezon City Science High School	Anticancer Potential Of Molave (<i>Vitex parviflora Juss.</i>) Crude Leaf Ethanolic Extract Against Lung Cancer Cells (A549 And GLO1)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Second	Navotas City	Diana Rose D. Mucho	Navotas National Science High School	Moringa Oleifera Leaf Extract Decreases Caffeine-Induced Insomnia In Sleep-Wake Behaviors Of Drosophila Melanogaster	Joseph Gabriel G. Cruz	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Third	Taguig City and Pateros	Charisse M. Macapagal	Sen. Renato "Compañero" Cayetano Memorial Science And	Anti-Angiogenic And Vascular Irritancy Screening Of Purple Corn (Zea	Gieza Lynn N. Aseñas	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez

Fourth	Paranaque City	Jasmin Victoria B. Bonifacio	Parañaque National High School-Main	A Comparative Study Of The Efficacy Between Rice Husk And Corn Cob As Substrates For Hydroponic Gardening	Princeville S. Lanza	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Fifth	Las Pinas City	Sofia Astrud P. Rogado	Las Piñas National High School-Senior High School	In Silico Analysis Of Curcuminoids And "Curcumin" Analogues As Epidermal Growth Factor Receptor (Egfr) Inhibitor: A Novel Approach For Prostate Cancer Therapy	Margian Erica S. Taguas	Ignacio L. Son, Jr.	Ms. Laprizal Castueras	Dr. Loreta B. Torrecampo

Top 5 Best Research Projects: Life Science Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon city	Alyanna Marie S. S. Iliw-Iliw, Lucia Faye T. Tagupa,	Quezon City Science High School	Herbicidal Effects Of Rice Straw Extract (<i>Oryza sativa L.</i>) On The Seedling Viability of Itchgrass	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V

Second	Navotas City	Mark Jared V. Teng Saireen Jan C. Oliveros, Venice Angelica A. Crampatana, Carlo T. Timbas	Navotas National Science High School	(<i>Rottboellia cochinchinensis</i>) Bruguiera Sexangula (Pototan) Inhibits Angiogenesis Via Chick Chorioallantoic Membrane (Cam) Assay	Don King Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Third	Pasay City	Heiza Adeth G. Banaag, Rochelle N. Terrado, Simon Gabriel Villa	Pasay City National Science High School	Micropropagation Of The Endangered Philippine Teak (Tectona Philippinensis) By Organogenesis Using Nodal Segments	Shannen Dorothy P. Gomez	Rouell A. Santero	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo, CESO VI
Fourth	Malabon City	Analyn B. Cantonjos, Trisha A. Ancheta, Mary Laine C. Avila	Tinajeros National High School	Effectiveness Of Caraway (Carum Carvi) Seed Extract As Pesticide Against Luzon Point Headed Termites (Nasutitermes Luzonicus)	Shamarie S> Villabeza	Ma. Victoria R. De Gulan	DR. Manolo C. Davantes Jr.	Dr. Cecille G. Carandang
Fifth	Pasig City	Princess Chloe R. Bonifacio, Shilo Havanalyn P. Campomanes, Vince Danielle R. Mansueto	Pasig City Science High School	Enhanced Antibacterial Activity Of Wound Dressing Using Biosynthesized Gold And Copper Nanoparticles		Charlie O. Fababaer	Ms. Liza A. Alvarez	Dr. Sheryll T. Gayola

Top 5 Best Research Projects: Physical Science Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Manila	Karl Ellson O. Zurbano	Cayetano Arellano High School	Feasibility Of Taal Volcanic Scoria As Radiation Attenuating Property For Construction Aggregates	Neil Juvert F. Valentino	John Butch P. Locara	Ms. Merie Gerlie V. Capiral	Dr. Rita E. Riddle, CESO V
Second	Taguig City and Pateros	Gwyn Nicole L. Dulongbinte	Sen. Renato "Compañero" Cayetano Memorial Science And Technology High School	Mixed Dye Extracts Of Red Onions (Allium Cepa L.), Red-Fleshed Pitaya Peels (Selenicereus Costaricensis), And Sweet Potato Leaves (Ipomoea Batatas L.) As Photosensitizers In Dye-Sensitized Solar Cells	Gleza Lynn N. Aseñas	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Third	Mandaluyong City	Rhianah S. Sulit	City Of Mandaluyong Science High School	Absorption Of Cellulose And Antimicrobial Properties In Pandan (Pandanus Amaryllifolius) Leaf Fiber As A Potential Plant-Based Alternative To Superabsorbent Polymer (Sap) In Commercially Available	Ms. Crizel J. Peligrino	Ms. Gigi G. Bullanday	Ms. Roxane S. Villanueva	Dr. Aurelio G. Alfonso

Fourth	Paranaque City	Steffi D. Entrada	Paranaque National High School-Main	Disposable Diapers Tomato (Lycopersicon Esculentum) Lycopene Extraction With Coconut Oil As A Sun Protection Factor Enhancer In A Formulated Sunscreen Lotion	Marylene P. Salvatera	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
Fifth	Las Pinas City	Rafael P. Quilling III	Las Pinas National Science High School- Senior High School	The Utilization Of Xanthan Gum Polysaccharide And Cooking Oil Waste In Las Piñas To Create An Abrasion Resistant Rubber Mat	Phillina Beatrix S. De Guzman, Rmt	Eleanor V. Honrales	Ms. Laprizal P. Castueras	Dr. Loreta B. Torrecampo

Top 5 Best Research Projects: Physical Science Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Taguig City and Pateros	Vince Kristan L. Arcilla, Zandre C. Managbanag, Aprelle Rowena F. Simora	Senator Renato "Compañero" Cayetano Memorial Science And Technology High School	Adsorption Of Hexavalent Chromium (Cr (VI)) In Aqueous Solution Using Surface Functionalized	Jinnaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez

Second	Quezon City	Anne Gabrielle M. Rosaldo, Maiara Mercurie G. Marcelo, Wyatt Alfonso M. De Belen	Quezon City Science High School	Chitosan-Coated Cogon Grass (Imperata Cylindrica L.) Fiber Classification Of Electron Beam-Irradiated Papaya (Carica papaya) Using Neural Networks	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Third	Navotas City	Maria Janaila G. Rojo, Lincoln Xeree B. Traquiña, Cassandra A. Ingeniero	Navotas National Science High School	S.A.G.E.: Sustainable Dye-Adsorbent For Greener Environment-- Combined Paper Wastes And Commercial Coconut Activated Carbon (Ac) As An Adsorbent Paper Matrix For Methylene Blue And Aniline (Jobus) Dyes	Don King O. Evangelista	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Fourth	Manila	Albancia, James Rey F. Labonete, Ma. Faye N. Perucho, Jasmine A	Raja Soliman Science and Technology High School	Molecular Docking of Moringin, A Stable Isothiocyanate from Moringa oleifera and TRPA1 (Ligand-Free) with Bound Calcium for Visualization of Potential Non-Covalent Activation through Ankyrin Repeat-17 Domain	KENT-ZELLARY ENRIQUEZ		Ms. Merie Gerlie Capiral	Dr. Rita E. Riddle, CESO V

Fifth	Mandaluyong City	Rhayanna Grey S. Jumawid, Loren Joyce B. Doydora	City Of Mandaluyong Science High School	Neighboring Residues Feasibility Of Tamarind (Tamarindus Indica) Seed Husks As Potential Adsorbents For Phytoremediation Of Lead And Copper From Pasig River	Ms. Crizel J. Peligrino	Ms. Gigi G. Bullanday	Ms. Roxane S. Villanueva	Dr. Aurelio G. Alfonso
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Top 5 Best Research Projects: Robotics and Intelligent Machine Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Angelica A. Prellegera	Quezon City Science High School	Arduino-Based Autonomous Navigation To Detect Solid Metals For Ground Contamination Recovery (Andar)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Second	Makati City	Ignacio Emil N. Lucina	Bangka High School	Agricultural Auto-Care System With Sms Alert For Water Level Monitoring In Aeroponic Tomato (Solanum Lycopersicum) Vegetation: Controlling Humidity, Lighting,	Marilou E. Balaoging	Lutgardo P. Cruz	Mr. Hernan Apurada	Ms.. Ma. Evalou Concepcion A. Agustin, CESO V

Third	Marikina City	Justine Eumir D. Aquino	Malanday National High School	The Efficiency Of An Improved White Cane With An Ultrasonic Sensor And Buzzer For Visually Impaired	Mark Andrew Yague	Nerissa S. Estrella	Ms. Jessica S. Mateo	Dr. Cynthia L. Ayles
Fourth	Valenzuela City	Noaxy S. Cabalhin	Valenzuela National High School	The Effectiveness Of Regulated Access Of Water (Idraw) As Tool In Promoting Water Conservation And Plastic Waste Reduction	Arvin C. Austria	Christopher J. Delino	Dr. Maria Lea Q. Prondo	Dr. Noel D. Bagano
Fifth	Malabon City	Jack Patrick Q. Abude	Panghulo National High School	The Efficiency Of A.B.E.R (Arduino-Based Enrolment And Registrar) System In Managing Panghulo National High School Files	Marief G. De Jesus	Julius D. Jaylo	Dr. Manolo C. Davantes	Dr. Cecille G. Carandang,

Top 5 Best Research Projects: Robotics and Intelligent Machine Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Ram Fonzy S. Bobis, Teodor L. Escobido, Trixie Paulyn M. Manuel	Holy Spirit National High School	Time Scheduler And Earthquake Alarm System - TSEQAS Using EV3 Module	Mr. Diosdado C. Espiritu Jr.	Dr. Arnel L. Cañero	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Cedilla, Ceso V
Second	Malabon City	Alyanna C. Bunag, Kent Louis V. Ganiron, Kaye-Em Redarmy R. Mancilla	Malabon National High School	Floodfind: An Iot-Based Flood Monitoring System Using Arduino Mega		Olivia Q. Martin	Dr. Manolo C. Davantes	Dr. Cecille G. Carandang
Third	Quezon City	Kiara Cheska D. David, Sofia Kristinne Ysabel S. Soledad, Selwyn D. Bracamonte	Quezon City Science High School	S.A.R.H.: A Soft Actuated Robotic Hand for Range of Motion Therapy on the Rehabilitation of Hand Function for Monoparesis Patients	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Fourth	Makati City	Seven Anthony B. Mangubat, Shaunn Jared M. Bercasio, Kealoha Arguelles	Bangkal High School	Project A.R.V.M.I.S. (Arduino-Based Reverse Vending Machine In Schools) To Improve Solid Waste Management Program	Judelyn M. Alviro	Lutgardo P. Cruz	Mr. Hernan L. Apurada	Ms. Ma. Evalou Concepcion A. Agustin, CESO V

Fifth	Valenzuela City	Angeline A. Alipio, Faustine John A. Calimag, Jerson B. Estrada	Malinta National High School	Pyroguard: Assessing The Functionality Of An Arduino-Based Heat-Responsive Fire Suppression Technology With Rfid Access Control For Type A And B Fire	Chealand Dela Cruz	Edwin L. Valera	Dr. Maria Lea Q. Prondo	Dr. Noel D. Bagano
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Top 5 Best Research Projects: Mathematics and Computational Sciences Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Valenzuela City	Leandro S. Asunan	Valenzuela City School Of Mathematics And Science	Geometry Of Taxicab Parabolas: Identifying The Relationship Between The Latus Rectum-Focal Distance Ratio And Directrix In Non-Slant Taxicab Parabolas	Dioscorro G. Lumogdang III	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr. Noel D. Bagano
Second	Muntinlupa City	James Rommel B. Guevara	Muntinlupa Science High School	A* (A-Star) Algorithm With Manhattan Distancing And Geographic Information System (GIS) To Prompt Efficient Public	Geraldine S. Gonzales	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESO V

Third	Manila	Yorihc K. Tabiara	Manila Science High School	Commuting Routes: Muntinlupa City As The Paradigm Municipality	Julie Anne O. Ramirez	Manolo G. Peña III	Dr. Remy Linda Soriano	Dr. Rita E. Riddle, CESO V
Fourth Fourth	Pasig City	Edgar Gerard L. Soliva	Rizal High School	The Patterns Generated in Modified Pascal'S Triangles With Ordered Pair Entries (A,B) In Addition Modulo 2, 3, and 4	Joshua Elijah P. Gerona	Richard T. Santos	Dr. Teresita P. Tagulao	Mrs. Sheryl T. Gayola, CESO V
Fifth	Pasay City	Denmark Jan T. Dapui	Pasay City South High School	Hands: A Transcription Tool For Basic Filipino Sign Language Using Hand Analytic Network Detection System (Image Processing)	Glenn Arwin M. Bristol	Emilia L. Tolentino	Mr. Rogelio Junio	Dr. Joel T. Torrecampo, CESO VI

Top 5 Best Research Projects: Mathematics and Computational Sciences Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Mandaluyong City	Matthew Allan S. Fernandez, Kyle Christian M. Cloma,	City Of Mandaluyong Science High School	LUMOS: Lighting Using Mathematical Optimization System in Non-	Mr. John Francis S. Cultura	Ms. Gigi G. Bullanday	Mr. Restituto I. Rodelas	Dr. Aurelio G. Alfonso

Second	Pasig City	Wyndle Wyne R. Calansingin	Pasig City Science High School	Reflective Cuboid Rooms with Upright Objects Trick Or Treat: Using Machine Learning With Python To Detect Scam Sms Messages	Joseph S. Lara	Charlie O. Fababaer	Dr. Teresita P. Tagulao	Mrs. Sheryl T. Gayola, CESO V
Third	Las Pinas City	Kathrina Marie R. Ocampo, Takao John A. Dollente, Janella Erin F. Gutierrez	Las Pinas City National Science High School	Geolocation Database Forecasting For Internet Users Using Television White Space	Angelito P. Kilala	Eleanor V. Honrales	Dr. Gina L. Aguitez	Dr. Loreta B. Torrecampo
Fourth	Quezon City	Kirsten Geraldine C. C. Esteban, Kim D. Agot, Lozano Jr. L. Cruz	Quezon City Science High School	A Mathematical Investigation On A Strict Upper Bound For The Maximum Number Of Intersections Of Varying Number Of Segments From Each Vertex Equally Dividing The Angles Of A Triangle	Allyn R. Mendez	Carolyn C. Simon	Dr. Joel P. Feliciano	Dr. Carleen S. Sedilla
Fifth	Valenzuela City	John Rafael S. De Dios, Ethan Samuel R. Estabillo, Zoe Gwyneth P. Sarmiento	Valenzuela City School Of Mathematics And Science	Dragon Curve: Transforming Collatz Conjecture Through Visual Coefficient Modification	Jayvec P. Orejola	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr. Noel D. Bagano

Top 5 Best Research Projects: Science Innovation Expo Individual

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Navotas City	Kylie Q. Cruz	Navotas National Science High School	Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application For Breaking Language And Speech Communication Barriers Among Filipino Citizens	Karl Erniell D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Second	Taguig City and Pateros	George Lean C. Tizon	Senator Renato Compañero Cayetano Memorial Science And Technology High School	Stair Assistance For Everyone (S.A.F.E.)	Annalyn B. Noble	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Third	Pasay City	Francis James Thaddeus M. Armendi	Pasay City South High School	Time-Programmed Current Terminating Arduino Uno-Based Device With Relay Module In Solving Phantom Load	May Ann D. Romano	Emilia L. Tolentino	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo, CESO VI
Fourth	Quezon City	Alfred S. Tadena	Quezon City Science High School	Arduino Uno For Power Interruption Adjunct To Flood Water Detection (APAW)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V

Fifth	Paranaque City	Alyanna B. Belista	Paranaque National High School-Main	Printed Metalized Biaxially Oriented (Bopp) Film As A Thermal Insulator	Princeville S. Lanza	Gerry A. Lumaban	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria
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Top 5 Best Research Projects: Science Innovation Expo Team

Place	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
First	Quezon City	Mark Louis Y. Tiongco, Fiona Margarette S. Ayeras, Lahlaine Joy M. Esparrago	Quezon City Science High School	A Solar Powered Smart Traffic Light System For Emergency Vehicles Prioritization Using AI-Enhanced Machine Learning Framework	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESCO V
Second	Muntinlupa City	Jillian R. Santos, Rifa Antonia D. Rasalan, Manuel Issiah A. Rito	Muntinlupa Science High School	Manila Clam (Venerupis Philippinarum) Shells As Fillers On Biocomposite Denture Base Acrylic Resins	Lady Edlenill J. Tavu	Florante C. Marmeto	Dr. Armida S. Oblinada	Dr. Evangeline P. Ladines CESCO V
Third	Paranaque City	Eulheinne A. Lopez, Anna A. Domine, Charles Christian P. Gopengco	Paranaque Science High School	Particle Board Production Using Bamboo (Bambusa Schreb), Tobacco (Nicotiana Tabacum) Stalks, and Gmelina	Ma. Theresa G. Baita	Ruel A. Grafil	Dr. Corazon A. Javier	Dr. Nerissa L. Losaria

Fourth	Navotas City	Rednalyn Joy C. Chua, Shane Dyl Kate A. Cuña, Patricia Denise T. Santos	Filemon T. Lizan Senior High School	(Gimelina Arborea) Wood with Cement	Engr. Francis Paul B. Dela Cruz	Irwin S. Jopio	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano
Fifth	Pasig City	Angel Dennisse B. Esquerria, Marcia Ghaye A. Marcelo, Mia Ivahna C. Villafania	Pasig City Science High School	C47 Asthmatic: Life Mask With Installed Inhaler For Asthmatic Patients Filtered With Taro Leaves	Engr. Lady Kynnia D. Garado	Charlie O. Fababaer	Ms. Liza A. Alvarez	Mrs. Sheryll T. Gayola, CESO V

Enclosure 4 Lourdes Choice Award

Lourdes Choice Award								
Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Robotics and Intelligent Machine Individual	Marikina City	Justine Eumir D. Aquino	Malanday National High School	The Efficiency Of An Improvised White Cane With An Ultrasonic Sensor And Buzzer For Visually Impaired	Mark Andrew Yague	Nerissa S. Estrella	Ms. Jessica S. Mateo	Dr. Cynthia L. Ayles

Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Life Science Individual	Quezon City	Josiah Christopher Q. Cruz	Quezon City Science High School	Anticancer Potential Of Molave (<i>Vitex parviflora Juss.</i>) Crude Leaf Ethanolic Extract Against Lung Cancer Cells (A549 And GI01)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Science Innovation Expo Individual	Pasay City	Francis James Thaddeus M. Armendi	Pasay City South High School	Time-Programmed Current Terminating Arduino Uno-Based Device With Relay Module In Solving Phantom Load	May Ann D. Romano	Emilia L. Tolentino	Dr. Maripaz T. Mendoza	Dr. Joel T. Torrecampo, CESO VI
Robotics and Intelligent Machine Team	Quezon City	Kiara Cheska D. David, Sofia Kristinne Ysabel S. Soledad, Selwyn D. Bracamonte	Quezon City Science High School	S.A.R.H.: A Soft Actuated Robotic Hand for Range of Motion Therapy on the Rehabilitation of Hand Function for Monoparesis Patients	Ms. Genevieve C. Vasquez	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Science Innovation Expo Individual	Navotas City	Kylie Q. Cruz	Navotas National Science High School	Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application	Karl Erniell D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano

					For Breaking Language And Speech Communication Barriers Among Filipino Citizens					
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Enclosure 5 NSTF Qualifiers

Category	SDO	Researchers' Names	Name of School	Research Title	Research Adviser	School Head	Science Supervisor	Schools Division Superintendent
Life Science Individual	Quezon City	Josiah Christopher Q. Cruz	Quezon City Science High School	Anticancer Potential Of Molave (<i>Vitex parviflora Juss.</i>) Crude Leaf Ethanolic Extract Against Lung Cancer Cells (A549 And GLO1)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carlean S. Sedilla, CESO V
Life Science Team	Quezon City	Alyanna Marie S. S. Iliw-Iliw, Lucia Faye T. Tagupa, Mark Jared V. Teng	Quezon City Science High School	Herbicidal Effects Of Rice Straw Extract (<i>Oryza sativa L.</i>) On The Seedling Viability Of Itchgrass (<i>Rottboellia cochinchinensis</i>)	Mr. Earl Francis C. Merilles	Ms. Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Sedilla, CESO V
Physical Science Individual	Manila	Karl Ellson O. Zurbano	Cayetano Arellano High School	Feasibility Of Taal Volcanic Scoria As Radiation Attenuating Property For Construction Aggregates	Neil Juvert F. Valentino	John Butch P. Locara	Ms. Merie Gerlie V. Capiral	Dr. Rita E. Riddle, CESO V

Physical Science Team	Taguig City and Pateros	Vince Kristan L. Arcilla, Zandre C. Managbanag, Aprille Rowena F. Simora	Senator Renato "Compañero" Cayetano Memorial Science And Technology High School	Adsorption Of Hexavalent Chromium (Cr (VI)) In Aqueous Solution Using Surface Functionalized Chitosan-Coated Cogon Grass (Imperata Cylindrica L.) Fiber	Jimnaira U. Abanto	Quinn Norman O. Arreza	Dr. Marivic T. Almo	Dr. Alejandro G. Ibañez
Robotics and Intelligent Machine Individual	Quezon City	Angelica A. Prellegera	Quezon City Science High School	Arduino-Based Autonomous Navigation To Detect Solid Metals For Ground Contamination Recovery (Andar)	Earl Francis C. Merilles	Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Dr. Carleen S. Sedilla
Robotics and Intelligent Machine Team	Quezon City	Ram Fonzy S. Bobis, Teodor L. Escobido, Trixie Paulyn M. Manuel	Holy Spirit National High School	Time Scheduler And Earthquake Alarm System - TSEQAS Using EV3 Module	Mr. Diosdado C. Espiritu Jr.	Dr. Arnel L. Cañero	Dr. Maria Pilar O. Capalongan	Ms. Carleen S. Cedilla, Caso V
Mathematics and Computational Sciences Individual	Valenzuela City	Leandro S. Asunan	Valenzuela City School Of Mathematics And Science	Geometry Of Taxicab Parabolas: Identifying The Relationship Between The Latus Rectum-Focal Distance Ratio And Directrix In Non-Slant Taxicab Parabolas	Dioscorro G. Lumogdang Iii	Jaime S. De Vera Jr.	Ms. Marilyn B. Soriano	Dr. Noel D. Bagano
Mathematics and Computational Sciences Team	Mandaluyong City	Matthew Allan S. Fernandez, Kyle Christian M. Clorna,	City Of Mandaluyong Science High School	LUMOS: Lighting Using Mathematical Optimization System in Non-	Mr. John Francis S. Cultura	Ms. Gigi G. Bullanday	Mr. Restituto I. Rodelas	Dr. Aurelio G. Alfonso

		Wyndle Wyne R. Calansingin		Reflective Cuboid Rooms with Upright Objects					
Science Innovation Expo Individual	Navotas City	Kylie Q. Cruz	Navotas National Science High School	Dasca: Enabling Connection - A Specialized Augmentative Alternative Communication (Aac) Application For Breaking Language And Speech Communication Barriers Among Filipino Citizens	Karl Ernie D. Arambulo	Russell P. Samson	Ms. Jocelyn R. Agulto	Dr. Meliton P. Zurbano	
Science Innovation Expo Team	Quezon City	Mark Louis Y. Tiongco, Fiona Margarette S. Ayeras, Lahlaine Joy M. Esparrago	Quezon City Science High School	A Solar Powered Smart Traffic Light System For Emergency Vehicles Prioritization Using Ai- Enhanced Deep Learning Framework	Genevieve C. Vasquez	Carolyn C. Simon	Dr. Maria Pilar O. Capalongan	Dr. Carleen S. Sedilla	