



Department of Education  
Region III  
**DIVISION OF CITY SCHOOLS**  
**Angeles City**

Jesus Street, Pulungbulu, Angeles City  
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RELEASED

DEC 07 2017

December 7, 2017

**DIVISION MEMORANDUM**  
No. 176 s. 2017

By [Signature]  
DepEd Angeles City  
Division of City Schools

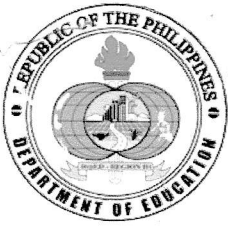
**RESULTS OF THE REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR  
SCHOOL YEAR 2017-2018**

To: Chief Curriculum Implementation Division  
School Governance and Operation Division  
Heads of Elementary and Secondary Schools  
All other concerned

1. Attached is Regional Memorandum No. 211 S. 2017 entitled "Results of the Regional Science and Technology Fair for School Year 2017-2018)" held on November 29, 2017 at DepEd Regional Office, Government Center, Maimpis, City of San Fernando, Pampanga per Regional Memorandum No. 152 s. 2017.
2. Immediate dissemination of this Memorandum is desired.

[Signature]  
**MARIA GELINA L. VEGA**  
Officer In-Charge

Office of the Asst. Schools Division Superintendent



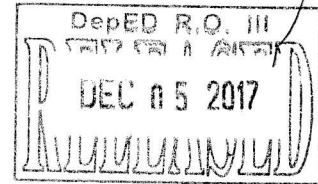
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**DEPARTMENT OF EDUCATION**  
**REGION III**

424



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December 1, 2017



**REGIONAL MEMORANDUM**  
No. 211, s. 2017

**RESULTS OF THE REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL  
YEAR 2017-2018**

To: ***All Schools Division Superintendents***  
***Science Education Program Supervisors***  
***Presidents of Private Schools, Colleges and Universities***  
***School Administrators/Principals of Secondary Public and Private Schools***

1. This is to announce the result of **the Regional Science and Technology Fair for School Year 2017-2018** held on November 29, 2017, at DepEd Regional Office, Government Center, Maimpis, City of San Fernando Pampanga, per Regional Memorandum No. 152, s. 2017.


2. The following are enclosed for information and guidance of all concerned:

- Enclosure No. 1 – List of Top Five Winners in Science Investigatory Project, Life Science Category – Individual & Team – Elementary Level
- Enclosure No. 2 – List of Top Five Winners in Science Investigatory Project, Physical Science Category - Individual & Team – Elementary Level
- Enclosure No. 3 – List of Top Five Winners in Science Investigatory Project, Life Science Category – Individual & Team – Secondary Level
- Enclosure No. 4 – List of Top Five Winners in Science Investigatory Project, Physical Science Category - Individual & Team – Secondary Level
- Enclosure No. 5 – List of Top Five Winners in Robotics and Intelligent Machines Category – Individual & Team

3. Rank 1 winners of the Science Investigatory Projects (Secondary Level only), Life Science, Physical Science and Robotics and Intelligent Machines - Individual and Team are the official regional entries to the 2017 National Scientific Review of Investigatory Projects, where qualifiers to the National Science and Technology Fair for School Year 2017-2018 to be held at Tagaytay International Convention Center (TICC) on February 5-9, 2018 are determined.

4. This Office commends and appreciates the active participation of pupils/students and advisers/coaches to the different contest events and the invaluable support of the Schools Division Superintendents, Division Science and Technology Fair Coordinators, Regional Education Program Supervisors and Personnel, School Principals, Administrators, as well as those who contributed to the success of the said competition.

5. Wide dissemination of the content of this Memorandum is earnestly requested.

  
**MALCOLM S. GARMA, CESO V**  
Director III  
Officer-In-Charge  
Office of the Regional Director



Encls.: as stated

References: DepEd Memorandum No. 175, s. 2017, Regional Memorandum No. 152, s. 2017 and Regional Memorandum No. \_\_\_\_, s. 2017

Allotment: 1 (D.O. 50-97)

To be indicated in the **PERPETUAL INDEX**  
under the following subjects:

**COMPETITION  
PROGRAM  
RESEARCH  
SCIENCE EDUCATION**

**SCIENCE INVESTIGATORY PROJECT  
SUPERVISORS  
STUDENTS  
TEACHERS**



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Enclosure No. 5 to the Regional Memorandum No. \_\_\_\_\_, s. 2017

**REGIONAL SCIENCE & TECHNOLOGY FAIR FOR SCHOOL YEAR 2017-2018**  
**SCIENCE CONGRESS**

**Secondary Level**  
**LIST OF TOP FOUR (4\*) WINNERS**

Category: **ROBOTICS AND INTELLIGENT MACHINES – INDIVIDUAL**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	07	SOL-R: A Sun Operated Lightweight Charging Robot with GSM Notification	Francis Mae M. Espe	Nueva Ecija	Bongabon NHS Sinipit, Bangabon, Nueva Ecija	Mary Claire C. Payawal 09258820180
2	02	Liquefied Petroleum Gas Leakage with Alarm System and SMS Alert	Joshua Erati A. Pangilinan	Bulacan	Assemblywoman Felicitia G. Bernardino Memorial Trade School, Lias, Marilao, Bulacan	Espy Solutin-Balbuena
3	01	Urban Vertical Farming: An Automated Hydroponics System for Vegetable Crop Production	E'van Relle M. Tongol	Angeles City	Angeles City Science High School Doña Aurora St., Lourdes Sur East, Angeles City	Lolita B. Bautista 09228836652
4	04	Innovation of an Arduino Operating A Smart and Easy Access Farming System	Sean Roi C. Tarape	Tarlac City	Maliwalo High School, Maliwalo, Tarlac City	Shiela Mina Marie C. Facun

\* Out of 8 RIM-Individual Entries only 4 were approved by the Regional SRC

Category: **ROBOTICS AND INTELLIGENT MACHINES – TEAM**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	02	SMARTVISION: Assistive Devices for Visually Impaired Persons	Sancho Luis Lingat Luis Inñaki P. Santos	Angeles City	Angeles City Science High School Doña Aurora St., Lourdes Sur East, Angeles City	Lolita G. Bautista
2	05	Real-Time School-Based Flood Detector with SMS, Light and Sound Alerts Pumping System	Noreen DS. De Geron Axcel France LG. Eco Althea Ricci C. Feliciano	Bulacan	Assemblywoman Felicitia G. Bernardino Memorial Trade School, Lias, Marilao, Bulacan	Espy Solufin-Balbuena
3	10	Dual-Function Cleaning Robot (DFCR) as Vacuum Cleaner and Floor Cleaner	John Jayson F. Manangan Alinor L. Taurak Young D. Lee	Zambales	Botolan NHS Batonlapoc, Botolan, Zambales	Rochelle Ann G. Amigable
4	03	P6T: A Robotic Arm with the Ability to Adapt with Solid Objects to Assist Persons with Disabilities	Karl Isaac R. Otayde Abbie Keith D. Fajardo Yanna Gabrielle S. Fernando	Malolos City	Marcelo H. del Pilar National High School	Marissa R. Flores
5	01	Andhuino: Bluetooth Connected Prototype Color Sorting Robot	Eurabelle F. Daluz Jewel V. Mallare Marc Aldrin P. Mendoza	Cabanatuan City	Marciano Del Rosario Mem. NHS Pamalidan, Cabanatuan City	Angelito M. Rivera 09178000908

Prepared by:

  
**LIBRADA M. RUBIO**  
EPS, CLMD

Noted:

  
**ELIZABETH M. PERFECTO**  
Chief, CLMD



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Enclosure No. 4 to the Regional Memorandum No. \_\_\_\_\_, s. 2017

**REGIONAL SCIENCE & TECHNOLOGY FAIR FOR SCHOOL YEAR 2017-2018**  
**SCIENCE CONGRESS**

**Secondary Level**  
**LIST OF TOP FIVE (5) WINNERS**

Category: **PHYSICAL SCIENCE - INDIVIDUAL**

RANK	PROJECT CODE #	PROJECT TITLE/Muñ	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	12	In-Silico and Physicochemical Analysis via Molecular Docking of Selected Bioactive Constituents of <i>Basella alba</i> (Malabar Spinach) and <i>Allamandra cathartica</i> (Yellow Bell Shrub) Leaves as Potential and induced-Fit Inhibitors for the Virion Surface Envelope Glycoprotein in GP120 of Human Immuno-Deficiency Virus-1 (HIV-1)	John Paolo D. Mendoza	Gapan City	Juan R. Liwag MHS Bayanihan, Gapan City, Nueva Ecija	Judd Edward Hernandez 09173211150
2	19	Improved Intensity Meter	Kwane Allen D. Acidera	Zambales	Subic NHS Subic, Zambales	Eleanor D. Almazan
3	04	The Use of <i>Pseudomonas aeruginosa</i> Aided with Alpha Iron-Oxide Nanoparticles Precipitate in the Biodegradation of Polyethylene Film, Low-Density Polyethylene and Polyethylene Terephthalate	Manna G. Cruz	Malolos City	Marcelo H. del Pilar National High School	Marissa R. Flores
4	17	Nanostructured Light Expanded Clay Aggregates (NLECA) Enhanced Biofertilizer Applied in Tomato ( <i>Solanum lycopersicum</i> )	Ivan Aldrich DC. Inigo	Science City of Muñoz	Muñoz NHS-Main Bantug, Science City of Muñoz, Nueva Ecija	Maricor V. Santos 09070397435
5	01	Electrically Guarding, Abling, Affirming and Assuring (EG-AAA) System	Emmanuel Joseph A. Liazana	Cabanatuan City	San Josef NHS San Josef Sur, Cabanatuan City	Gypsy B. Corpuz

Category: **PHYSICAL SCIENCE - TEAM**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	20	CoPea Corn Exhaust Filter	Louise Mae A. Mercado Jea R. Borja Faith M. Policarpio	Zambales	Subic NHS Subic, Zambales	Pamie F. Malana
2	10	Photodegradation of Methylene Blue Dye Molecules Using Zinc Oxide-Sampaguita-Infused Nanoparticles	Justine Shanelle M. Policarpio Trixia Marie Eirene M. Gonzales Kristian Rome L. Tacbian	Tarlac Province	Tarlac NHS-Main	Aixeen Fontanilla
3	13	Nanoremediation of Heavy Metals in Simulated Farm Water Utilizing Zeolite/Chitosan Reinforced with Nano-Silica as Adsorbent Analyzed by Using Flame Atomic Adsorption Spectroscopy (FAAS)	Aldrey Q. Pagkanlungan Norman Paulo M. Pablo Jhon Lhenard G. Garcia	Gapan City	Juan R. Liwag MHS Bayanihan, Gapan City, Nueva Ecija	Cherry F. Domingo
4	15	ADAM (Auditory Disturbance Alarming Machine) as High Intensity Sound Detector Alarm	Selina M. Farnisan Philip Andrew A. Valdez Alia E. Viesca	Olongapo City	RSHS-III East Kalayaan, SBFZ	Airjay S. Daplas 09292101112
5	07	Activated Carbon from Carabao and Pig Manure as Adsorbent of Lead, Copper, Iron and Cadmium Contaminated Water	Eucris Andrea L. Cruz Maiah V. Cheng Ralp Matthew F. Ventura	Bulacan	San Miguel NHS Scuala St., San Juan, San Miguel, Bulacan	Dennis Delos Santos Arcega

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Enclosure No. 3 to the Regional Memorandum No. \_\_\_\_\_, s. 2017

**REGIONAL SCIENCE & TECHNOLOGY FAIR FOR SCHOOL YEAR 2017-2018**  
**SCIENCE CONGRESS**

**Secondary Level**  
**LIST OF TOP FIVE (5) WINNERS**

Category: **LIFE SCIENCE - INDIVIDUAL**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	13	Reducing Dopaminergic Neurodegeneration and Motor Dysfunction Using Crude Ethanollic Bamboo ( <i>Bambusa vulgaris</i> ) Leaf Extract on a Transgenic <i>Caenorhabditis elegans</i> Model of Parkinson's Disease	Roehann Mykael B. Zabab	Gapan City	Juan R. Liwag MHS Bayanihan, Gapan City, Nueva Ecija	Jerone Mejia
2	18	Encapsulation and Characterization of Carotenoids from Canistel ( <i>Pouteria campechiana</i> ) using Natural Polymers: A Potential Source of Carotenoid and Antioxidant Supplement	Gerlie A. Corpuz	Science City of Muñoz	Muñoz NHS-Main Bantug, Science City of Muñoz, Nueva Ecija	Maricor V. Santos
3	16	Phytochemical Screening and Antioxidant Analysis of Pakiling ( <i>Ficus odorata</i> ) Methanollic Leaf Extract	John Jeric A. Vicente	Nueva Ecija	Aliaga NHS Aliaga, Nueva Ecija	Jowel C. Pablo
4	15	In Vitro Cytotoxic Property of Takip-kuhol ( <i>Centella asiatica</i> ) Leaves Ethanollic Extract on HCT116 Human Colon Carcinoma Cell Line Using MIT Cell Proliferation Assay	Rlan Gerard G. Manero	Olongapo City	RSHS-III East Kalayaan, SBFZ	Arjay S. Daplas
5	01	Mitotic Inhibition on Endochondrial Ossification in Duck Embryo and in-vitro Pro-apoptotic Activity of <i>Pouteria campechiana</i> (Kunth) Baehni Fruit Peel Extract Against MCF7-Breast Cancer Cell Line	Claarence G. Reguyal	Cabanatuan City	Marciano Del Rosario Mem. NHS, Pamaldan, Cabanatuan City	John Angelo B. Almazar



Category: **LIFE SCIENCE - TEAM**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	13	Endophyte-Mediated Drought and Salt Stress Tolerance in Rice ( <i>Oryza sativa</i> ) via Habitat-Adapted Symbiosis Induced by Isolated Endophytic Fungi from Tall-stilted Mangrove ( <i>Rhizophora apiculata</i> ) and Seashore <i>Paspalum</i> ( <i>Paspalum vaginatum</i> )	Lorisabelle Sebastian Ljoe S. Garcia Lheera R. Delos Santos	Gapan City	Juan R. Liwag MHS Bayaninhan, Gapan City, Nueva Ecija	Mary Lorraine F. Lorido
2	07	Alusiman ( <i>Parfulaca oleracea</i> L.) as Angio-suppressive Agent Using In Ovo Chick Chorioallantoic (CAM) Assay	Lance Angelo G. Guinto Romariz DC. Flores Aianna Jennine R. Goyena	Bulacan	San Miguel NHS Scuata St., San Juan, San Miguel, Bulacan (044) 764-0178	Bernadette Estarez- Hipolito
3	03	Screening of the Anti-quorum Sensing Property of Bioluminescent Bacteria against Hospital-Acquired Pathogen <i>Pseudomonas aeruginosa</i>	Shaira C. Gozon Ana Sofia N. Diaz	Angeles City	Angeles City Science High School Doña Aurora St., Lourdes Sur East, Angeles City	Lolita B. Baufista
4	18	Variation of Root Development of KDML 105 and Mutant Rice Under Drought Stress and Phosphorous Deficient Conditions	Khyla Claire C. Estrada Victor Vincent DV. Catabona John Pierre L. Nuncio	Science City of Muñoz	Muñoz NHS-Main Bantug, Science City of Muñoz, Nueva Ecija	Maricor V. Santos
5	01	<i>Annona squamosa</i> L. Fruit Exocarp Extract with Inhibiting Action Against Free-Radicals, Embryo-toxic and Teratogenic Effects on Zebrafish Embryo and Anticancer Activity on A549 Human Lung Adenocarcinoma	Reignie Margarette M. Pelayo Angelica G. Quitalig Charles Louis P. Dela Cruz	Cabanatuan City	Marciano Del Rosario MNHS, Pamaldan, Cabanatuan City	John Angelo B. Almazar

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**ELIZABETH M. PERFECTO**  
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Enclosure No. 1 to the Regional Memorandum No. \_\_\_\_\_, s. 2017

**REGIONAL SCIENCE & TECHNOLOGY FAIR FOR SCHOOL YEAR 2017-2018  
SCIENCE/RESEARCH CONGRESS**

**Elementary Level  
LIST OF TOP FIVE (5) WINNERS**

Category: **LIFE SCIENCE - INDIVIDUAL**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	03	Neem ( <i>Azadirachta indica</i> ) vs Sugar Apple ( <i>Annona squamosa</i> ) Leaves Extract as Alternative Pediculicides	Ejeirod G. Ramos	Angeles City	Sapalibutad Elementary School	Mary Ann D. Manlapaz
2	05	Antioxidant Activity on DPPH Free-Radicals Scavenging Assay, Cytotoxicity on Brine Shrimp ( <i>Artemia salina</i> ) and Antimicrobial Activity of Tibig ( <i>Ficus nota</i> ) on <i>Staphylococcus aureus</i>	Clarence A. De Guzman	Cabanatuan City	Camp Tinio Elementary School	June C. Bernabe
3	04	Coconut Water ( <i>Cocos nucifera</i> ) and Tomato ( <i>Solanum lycopersicum</i> ) Extract: An Effective Fertilizer for Garlic ( <i>Allium sativum</i> )	Jan-ury Raphael DV. Taduran	Bulacan	Sta. Maria Elementary School	Mary Rose DV. Cruz
4	10	The Efficacy of Chitosan from Mussel ( <i>Perna viridis</i> ) Shell Extract in Prolonging the Shelf Life of Fruits and Vegetables	Althea Michaelle M. David	Olongapo City	St. Joseph College-Olongapo, Inc., Olongapo City	Della D. Cajaline
5	08	In Vitro Bioassay of Canistel ( <i>Pouteria campechiana</i> ) and Lemon Grass ( <i>Cymbopogon citratus</i> ) Against <i>Haemophilus influenzae</i>	Anika Lei M. Chiang	Gapan City	Gapan North Central School	Leilanie V. Abello

Category: LIFE SCIENCE - TEAM

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	06	Toxic and Teratogenic Effect of Kutsay (Allium odorum L.) Leaf Extraction on the Developing Embryos of Zebrafish ( <i>Danio rerio</i> )	Francis Adrian R. Flores Clarence F. Catacutan	Nueva Ecija	Sto. Domingo Central School Sto. Domingo, Nueva Ecija	Nilda A. Herrera
2	03	Antibacterial Screening and Toxicity Test of Tandang-Tangan ( <i>Ricinus communis</i> L.) Leaf Extract	Jonna Marisse V. Lumague Howel Ann S. Alceso	Bulacan	Buliran Elementary School Buliran, Bulacan	Patricia T. Rieza
3	11	Roasted Guava: A Substitute to Coffee	Fhyka Dian S. Bunaladi Angelyn M. Sta. Isabel	Tarlac Province	Engracio M. Castañeda Central Elem. School	Sharon C. Vergara
4	08	<b>CRAB-C</b> Chlorine Removal for Aquaponics System Through <i>Citrus microcarpa</i> Bunge (Calamansi) Peel Extract	Reese Janelle Vaughn Emmery	Zambales	Josephine F. Khonghun Special Education Center Wawandue, Subic, Zambales	Jennifer A. Gonzales
5		The Efficacy of Effective Microorganism from <i>Azolla filiculoides</i> Lam. and Molasses on the Growth of <i>Brassica juncea</i> L.	Jhean Ahlea T. De Guzman Janell R. De San Jose	Gapan City	Bungo Elementary School Bungo, Gapan City	Nicomedes R. San Pedro

Noted:

  
**ELIZABETH M. PERFECTO**  
Chief, CLMD

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Enclosure No. 2 to the Regional Memorandum No. \_\_\_\_\_, s. 2017

**REGIONAL SCIENCE & TECHNOLOGY FAIR FOR SCHOOL YEAR 2017-2018**  
**SCIENCE/RESEARCH CONGRESS**

**Elementary Level**  
**LIST OF TOP FIVE (5) WINNERS**

Category: **PHYSICAL SCIENCE - INDIVIDUAL**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER
1	06	The Effectiveness of Green Mussel ( <i>Perna viridis</i> ) Shell as a Liming Material on Soil	Miguel Alejandro Q. Ong	Tarlac City	Tarlac West Central Elem. School, Tarlac City	Marie Allen D. Rivera
2	05	"IAI 4Kv"	Kryztelle Ashley R. Herrera	Cabanatuan City	Mayapyap Elementary School	Maureen I. Junio
3	04	Emergency Flood Alarm and Signal Light with Uninterrupted Power Source	Neeyan Drei V. Silva	Bulacan	Taal Elem. School Taal, Bocaue, Bulacan	Ermiliza Chew-Soliman
4	11	Prince's Do It Yourself Sand (Alternative Kinetic Sand)	Prince Humpy N. Bugarin	Tarlac Province	Gerona North Central ES Gerona North District, Tarlac	Melanie M. Parazo
5	07	Reinforcement of Ash and Clay Soil by Mussel Shell as an Eco-Friendly Tiles	Leoredie F. Dela Cruz	Nueva Ecija	Rita De Lara Elem. School Bongabon, Nueva Ecija	Jenylyn C. San Jose

Category: **PHYSICAL SCIENCE - TEAM**

RANK	PROJECT CODE #	PROJECT TITLE	NAME OF PROJECT LEADER/PRESENTOR	DIVISION	NAME & ADDRESS OF SCHOOL	PROJECT ADVISER/PHONE No.
1	09	Saltwater Treatment Using a Portable Reverse Osmosis Device and the Utilization of Its Waste as a Concentration Cell	Mariz Angela G. Lumbao Juliana M. Mendoza	Olongapo City	Special Education Center for the Gifted, Olongapo City	Marilyn D. Pagaduan
2	10	Penny Power Electricity from Pennies	Carl Michael P. Galang Louise Ann Gatchalian	Pampanga	San Pablo Elem. School Sta. Ana, Pampanga	Merliza D. Mercado
3	07	Sandy Pebbled Expanded Polysterene Foam Binder	Rhea Ysabelle J. Campos Nica Mae D. Siblag	Nueva Ecija	Zaragoza Central School Zaragoza, Nueva Ecija	Ma. Cecilia M. Nieves
4	01	Fib-HAIR GLASS (The Potentiality of Strands of Hair as an Alternative Fiber Material in Making Fiberglass)	Jhon Michaela B. Duque Fritzie G. Ruiz	Meycauayan City	Bahay Pare Elem. School Bahay Pare, Meycauayan City, Bulacan	Anilyn R. Repalda
5	06	Design and Development of Egg Incubator	Jenesis A. Parone Darren B. Tiqui	Tarlac City	Atioc-Dela Paz elem. School, Dela Paz, Tarlac City	Antonina C. Nicdao

Noted:

**ELIZABETH M. PERFECTO**  
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*Librada M. Rubio*  
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