



Republic of the Philippines
Department of Education
Cordillera Administrative Region
SCHOOLS DIVISION OF BAGUIO CITY



December 9, 2022

DIVISION MEMORANDUM
No. 494 s. 2022

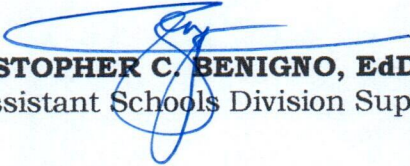
RESULT OF THE 2022 DIVISION SCIENCE FESTIVAL

To: All Chief Education Supervisors
Education Program Supervisors
Public Schools District Supervisors
Public and Private School Heads
Public and Private School Teachers
Others Concerned

1. Relative to Division Memorandum No. 150, s. 2022 and DM 395, s. 2022 re: 2022 Division Science Festival held on June – September 2022 and November 12 & 26, 2022, this office hereby announces the result of the 2022 Division Science Festival.
2. Attached herewith is the result of the competitions held during the conduct of the 2022 Division Science Festival.
3. For inquiries or issues relative to the matter, please feel free to contact Dr. Loida Mangangey, EPS – Science at Cell No. 09182506952
4. Immediate and wide dissemination of this memorandum desired.

FEDERICO P. MARTIN EdD, CEEd, CESO V
Schools Division Superintendent

For the Schools Division Superintendent:


CHRISTOPHER C. BENIGNO, EdD, PhD, CESO VI
Assistant Schools Division Superintendent



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Enclosure 1

I. Result of DM 150 s. 2022-Division Science Festival 2022

A. LIKHA (Secondary)

A.1 LIKHA (Secondary)-Life Science Individual

Award	Name	Coach	School	Title	School Head	PSDS
1st	Denmar Alfran Jr. F. Floresca	Jafet Issachar R. Junio	BCNSciHS	A Comparative Study Between Common Neutral Substances (water, salt, sugar, ethyl alcohol) and their Effect on Lucky Bamboo (Dracaena sanderiana) Survival and Mortality	Joan Andayan	Jayrerose Guevara
2nd	Alexi Viktoria E. Corpuz	Jafet Issachar R. Junio	BCNSciHS	Sayote (Sechium edule) leaves and vines used as a raw material with okra (Abelmoschus esculentus) acting as a binding agent for paper production	Joan Andayan	Jayrerose Guevara

A.2 LIKHA (SECONDARY) -Life Science Team

Award	Name	Coach	School	Title	School Head	PSDS
1st	Quincy B. Alabastro Lana I. Castro Samantha M. De Leon Chloemar N. Guidangen	Charry Mar Mahusay	BCNSciHS	The Effectiveness of Lemon (Citrus limon) Peel and Coconut (Cocos nucifera L.) Oil as Superabsorbent Ploymer	Joan Andayan	Jayrerose Guevara
2nd	Irish Angel C. Derige Althea Sydney S. Garan Claire D. Magaway Lanyz Fremelyn S. Ortiz	Ariel N. Millare	Rizal NHS	Effectivity of Extracted Bioplastic from Carrot (Daucus carota) Wastes as an Alternative Ink for Low-Cost 3D Printer Emulator	Leonardo Zambrano	Nixon Elahe



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A.3 LIKHA (Secondary)-Physical Science Individual

Award	Name	Coach	School	Title	School Head	PSDS
1st	Diorney B. Valdez	Charry Mar Mahusay	BCNSciHS	Extracting Pigments from Ube (<i>Dioscorea alata</i>) and Coffee (<i>Coffea arabica</i>) to Use as an Alternative Ink	Joan Andayan	Jayrerose Guevara
2nd	Jaztein Thea M. Dela Cruz	Melanie Abaggue	BCNSciHS	Reducing Greenhouse Gas (Carbon Dioxide and Methane) Emissions: Utilizing Philippine Natural Zeolite Mineral as an Additional Raw Material in Constructing Glass Windows	Joan Andayan	Jayrerose Guevara
3rd	Calleigh Angeline M. Cadena	Janet T. Gawidan	BCNHS	Sabila (Aloe Vera) Gel Coating as a Natural Preservative for Fruits	Brenda M. Cariño	Virginia Alindayo

A.4 LIKHA (Secondary)-Physical Science Team

Award	Name	Coach	School	Title	School Head	PSDS
1st	Jermaine G. Villarico Andrei Miguel C. Ferrera Avril D. De Aro Gabriel Owen L. Ngalot Angie-lyn Appaccag Mosscody Bhue Jeremy A. Cawed	Charry Mar Mahusay	BCNSciHS	Laboratory Toxic Gas Alarm System	Joan Andayan	Jayrerose Guevara
2nd	Trizza Ann V. Castro Stan Harold N. Delim	Lacambine C. Pine	BCNHS	Rice Husk (<i>Oryza sativa</i>) as an Alternative Material for the Production of	Brenda M. Cariño	Virginia Alindayo



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				Homemade Craft Paper		
3 rd	Moises P. Santos Erickson G. Bersamira Leonard Daniel C. Quimzon	Alvin Noel D. Gayados	BCNHS	Earthquake Alarming Device	Brenda M. Cariño	Virginia Alindayo

A.5 LIKHA (Secondary)-RIM Individual

Award	Name	Coach	School	Title	School Head	PSDS
RIM I 1st	Jermaine Rafayle C. Ticag	Charry Mar Mahusay	BCNSciHS	Sound waves as an Electricity Provider Using Arduino Sound Detection Sensor	Joan Andayan	Jayrerose Guevara

A.5 LIKHA (Secondary)-RIM Team

Award	Name	Coach	School	Title	School Head	PSDS
RIM TEAM 1 ST Place	James Angelo Mondares Joner Wayne Canipas Kathleen Denise Cadacio Jansen Margaret Zaradulla John Bryan Linda Jr. John Edward Lingayo	Charry Mar Mahusay	BCNSciHS	Smartphone Application that Provides COVID-19 Updates and Uses Quick Response (QR) Code Reader to enter Personal Information Before Entering Establishment in Baguio City	Joan Andayan	Jayrerose Guevara



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B. SIYENSIKULA
B. 1 JHS

Award	Name	Grade Level	School	Title	Link	Coach	School Head	PSDS
1st	Villarico, Jermaine G.	9	BCNSciHS	How Viruses Can Save Lives	https://www.youtube.com/watch?v=vRStNtfdIsE	Carry Mar Mahusay	Joan Andayan	Jayreros Guevara
2nd	IRORITA, Althea Mariz J.	10	BCNSciHS	String Theory	https://studio.youtube.com/video/5BkR0bq_zkI/edit	Melanie E. Abaggue	Joan Andayan	Jayreros Guevara
3rd	MONDARE S, JAMES ANGELO	9	BCNSciHS	History of the Earth	https://www.youtube.com/watch?v=gwldV1BXLYE	Ruthdalen Pamintuan	Joan Andayan	Jayreros Guevara
4th	DELA CRUZ, Jazteina M.	10	BCNSciHS	The Lagrangian and The Principle of Least Action	https://youtu.be/LjcBS9E6cYY	Melanie E. Abaggue	Joan Andayan	Jayreros Guevara

B.2 Senior High School

Award	Name	Grade Level	School	Title	Coach	School Head	PSDS
1st	Cielo Bautista	SHS	Baguio City National Science HS	Glycolysis: Money Matters of Our Body	Melanie Abaggue	Joan Andayan	Jayreros Guevara

C. STEM TOKPERIMENTS
C.1 JHS

Award	Name	Grade Level	School	Title	Coach	School Head	PSDS
1st	Alexi Viktoria E. Corpuz Denmar Alfran F. Floresca Jr.	10	BCNSciHS	Idine Clock Reaction (59 mins)	Jafet Issachar R. Junio	Joan Andayan	Jayreros Guevara
2nd	Jesa Joy G. Calinsuay Aivan Kulle N. Niduaza	10	Magsaysay NHS	Rainbow Drop Experiments (1.22 mins)	Jessica F. Ruiz	Lucia T. Casim	Marilyn Tam-in



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C.2 SHS

Award	Name	Grade Level	School	Title	Coach	School Head	PSDS
1st	Jiaanne C. Odian	SHS	Academia de Sophia International	Burning Candle-Rising Water Burn	Piolo C. Miranda	Aileen T. Mayomis	Marilyn Tam-ing

II. Result of DM 395 s. 2022- Addendum and Corrigendum to DM 150, S. 2022 (Division Science Festival 2022)

A. LIKHA Elementary

A.1 LIKHA Elementary-Life Science Individual

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Ignacio III A. ARANETA	5	F.S.B. (Friendly Stain Breaker)	Mabini ES	Angelbert Pednga	Proserpina M. Estacio	Nancy Dumalili

A.2 LIKHA Elementary- Life Science Team

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Mico Fritz M. BANGOY, Eugem A. LUNAG, Ezequella H. PALISPIS	6	Occurrence of the Chayote Mosaic Virus in Kias	Kias ES	Isnar Mang-usan	Gloria Catiyan	Simeon Yangyang
2nd	Kurtney Eve A. SURIAGA, Zhyrus Maverick E. ANCHETA	5	Boiled Betel Nut Leaves as an Alternative Cure for Scabies	Mabini ES	Angelbert A. Pednga John B. Guerrero	Proserpina M. Estacio	Nancy Dumalili
3rd	John Brylle L. JUNIO, Sean Matthew N. PALATINO, Kyle Russel E. RONQUILLO, Jeraiza Leigh V. SANJOY	5	Allelopathy of Beguet Lichen as an Organic Herbicide	Baguio Central School	Siana Sacyat	Esther K. Litilit	Lourdes Lomas-e



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A.3 Physical Science Individual

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Trisha Merylle GAVERAN	6	Phytoremediation Recovery of Copper from Fern Plants Through Electrowinning	Gibraltar ES	Princess M. Perez	Mr. Nixon C. Elahe	Mr. Nixon C. Elahe
2nd	Jaybee Acop	5	Prolonging the Shelf Life of Potato Tubers Using Indigenous Materials	Manuel Roxas ES	Jonnalyn T. Narciso	Juliet R. Mamaril	Jayrerose Guevara
3rd	Jaelyzah Rayne C. TICAG	5	Superabsorbent Polymers (SAPs) from Used Diapers as a Fertilized Growing Media	Baguio Central School	Siana Sacyat	Esther K. Lilit	Lourdes Lomas-e

A.4 LIKHA Elementary -Physical Science Team

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Tsidkenu D. UEDA, Mekadesh D. UEDA	4&6	Rambutan Peel Powder Antidote for Athletes Foot	Quirino Hill ES	Crisanta D. Ueda	Marie D. Sillatoc	Marilyn Tami-ing
2nd	Fevelyn Nicole Solinen Johnrenz Tolentino Joseph Manandeng	5	Heat Today, Grow Tomorrow: Growing Carrots in Burnt Loam Soil and Unburnt Loam Soil	Manuel Roxas ES	Jonnalyn T. Narciso	Juliet R. Mamaril	Jayrerose Guevara

B. LIKHA Secondary

B.1 Life Science Individual

Name	Grade Level	Title	School	Coach	School Head	PSDS
Gumanlaw, Erin Shane D.	SHS	Antibacterial Properties of Endophytic Fungi in Ipomea batatas var. Igorota Peelings	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili



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B.2 Life Science Team

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Raquedan, Ericka O., Colcol, Jamilla Clarizze T., & Quijano, Alythea Khristienne A.	SHS	Root Induction on <i>Oryza sativa</i> var. <i>Javanica</i> Koern with the use of Auxins and Cytokinins Through Micropropagation	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
2nd	Janeo, Ray Azriel A., Michael, Andrey Dylan D., & Chan, Therese Hermione E.	SHS	Glycemic Activity Stevioside Analysis of <i>Stevia rebaudiana</i> Leaves on Laboratory Mice	SLU Lab. High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
3rd	Meford P. Ngalngalo, Irish Jade R. Manzon, Stephanie May N. Alojado	12	Organic Fertilizer Vs Chemical Based Fertilizer: The Comparative Effect of Shredded Paper as Food for <i>Eudrilus Eugeniiae</i> to its Vermicast	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
4th	Asanion, Bhea Rexynne B., Bulwayan, Kayle Dreyshanne R., Cabanilla, Danielle Anne U., and Sequig, Ayanna Shanel P.	SHS	Isolation and Evaluation of Bacteria Found on Automated Teller Machines in Baguio	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
5th	Caguaia, Jearwin Faith Castro, Nicole Louisa Ann Distor, Nichole Kairi Lumiqued, Carol Ricafrinte,	12	The Repellent and Insecticidal Activity of Citrus <i>X</i> <i>quaratifolia</i> Key Lime) Extract	UB	Cheryl Langit	Dr. Marivic Mutong	Marilyn Tami-ing



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	Aphrodite Ronquillo, Janelle Nicole Uligan, Rebekkah Eve		Against the Plutella xylostella (Diamondback Moth Larvae)				
Finalist	Marieden M. Cardinal Diana Grace M. Javar Samaraleth Constance M. Lucagan	10	Antifungal Properties of Jade (Crassula ovata) Plant Extracts	Dona Aurora NHS	Isuki San R. Meredor	Marilou T. Gomeyac	Nancy Dumalili
Finalist	Amansec, Danille Thereze S., Martinez, Ysabelle Elise C., & Cardenas, Carmelo James D.	JHS	Chitin Yield Comparison Between Extracted and Characterized Chitin and Chitosan from Turkey Tails Mushroom (Trametes versicolor) and White Button Mushroom (Agaricus bisporus)	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili

B.3 Physical Science Individual

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Ragie Mae B. Guerero	12	Porcycled Vacuum	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
2nd	Cathleene Shania Jade P. Dangla	12	Interior Compressor Mechanical Bin	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
	Nano, Beejane	SHS	Crystallized Silver Chloride as Photochromic Coating on Fiberglass	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili

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3rd	Maria Cassandra S. Guzman	12	Eco-Friendly MIKD	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
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B.4 Physical Science Team

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Ariola, Elyza Ann A., Ngolab, Greysean A., & De Dios, Princess Elgine L.	JHS	Gold and Nickel Phyto mining and Phytoextraction of Watercress Induced with Ethylenediaminetetraacetic Acid Through In-Vitro Micropropagation Machine	SLU Laboratory High School	John Michael A. Guerzon, LPT, MAED-Bio	Alejandro P. Pablico, LPT, MAEM	Nancy Dumlali
2nd	Clifford F. Matias Eunice Kate D. Maranan Shenalyn G. Siw-aten		Rotating Prefilter (Pre-pressure, Filter, sprinkler)	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
3rd	Sherwin A. Tupagen, Ariane Gwynn D. Culimay, Jenne Rose N. Cacadac	12	Classroom NDA Powered by DC Generator	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
4th	Clifford F. Matias Eunice Kate D. Maranan Shenalyn G. Siw-aten	0	Rotating Prefinkler (Pre-pressure, Filter, sprinkler)	SLU Laboratory High School	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
5th	Bleszy P. Mede, Jhasmin D. Peng-as, Arven Ford M. Wadas	12	Vehicle Exhaust Fumes (VEF) Filter	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan
Finalist	Mark John E. Anquillano, Katherine B. Bayron, Elaine N. Generalao	12	Improvised Automatic Paper Shredder Machine	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan



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B.5 RIM Individual

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st Place	Bryan Bert B. Ganaden	12	"Wrap Me" Machine: An Aid to Hygienic Disposal of Used Sanitary Napkins	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan

B.6 RIM Team

Award	Name	Grade Level	Title	School	Coach	School Head	PSDS
1st	Lanie N. Ampac, Juna May O. Laos, Jeriel Mae S. Tongalan	12	Sel-Managing Automatic Recycling Trash Bin (SMART BIN)	Guisad Valley NHS	Jerry L. Manogan	Rosanna D. Dizon	Brendalee Awingan

C. SIYENSIKULA

C. 1 Elementary

Award	Name	Grade Level	Title	Link	School	Coach	School Head	PSDS
1st	Keleah Blaire T. Yap	4	Three laws of Motion	https://www.youtube.com/watch?v=r7Nif1LnaGI	UC - ELEM	Jed Marc N. Almazan	Gladys S. Sibayan	Virginia Alindayo
2nd	Jan Carlisle G. Dumalo	6	Mixtures (Homogeneous/Heterogeneous)	https://youtu.be/xlNQxq_BJhM	BCS	Frank Lloyd P. De Guzman	Esther Litilit	Lourdes Lomas-e
3rd	Kiyell Cassidy G. Bandorio	5	Water Cycle	https://youtu.be/sm88vHvhhIU	Quezon Hill ES	Blandina M. Apnoyan	Amalia K. Micklay	Jayreros e Guevara
	Erin Nichole R. Alcaparaz	6	Respiratory System - Effects of Vapes to our Health	https://youtu.be/5RkulJ8LGpK	Lucban ES	Jasmine S. Madongit	Jackson Cayaos	Marilyn Taming



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4th	Dhanrie Luck Frias	6	Ways of separating mixtures	https://m.youtube.com/watch?v=o4fuE0CpPQ	Quezon Hill ES	Celiama r D. Lavarias	Amalia K. Micklay	Jayrerose Guevara
5th	Sydney Avryl A. Bakiadan	5	Starting Fire Using Magifying Glass	https://www.youtube.com/watch?v=xm1Lbtv6RJQ	Quirino Hill ES	Crisanta D. Ueda	Marie D. Sillatoc, EdD	Marilyn Tami-ing
Finalist	Ira Danielle Labayne	6	Mixture	https://youtu.be/R5aQPWxbNUg	Dontogan ES	Methris hya B. Sabelo	Jacqueline L. Fianza	Jayrerose Guevara
Finalist	Zyra M. Garcia	5	Lava Lamp	https://vt.tiktok.com/ZSRGSLxxH/	Quezon Hill ES	Yolanda E. Lipaen	Amalia Micklay	Jayrerose Guevara

C. 2 Junior High School

Award	Name	Grade Level	Title	Coach	School	School Head	PSDS
1st	Hillary Grace B. Sababan	9	CLIMATE CHANGE	Maricel Alcedo	BCNHS	Brenda M. Cariño	Virginia Alindayo
2nd	Calixterio, Shean Ivan M.	JHS	Earthquakes	Marilou A. Portuguez, LPT	SLU – Laboratory High School	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili

C.3 Senior High School

Award	Name	Grade Level	Title	Youtube link	Coach	School	School Head	PSDS
1st	IVAN AIRON B. BERNA BE	12	IONIC THRUSTERS	https://youtu.be/Z1wKUTzAB9M	Cindy G. De Jesus	BCNHS	Brenda M. Cariño	Virginia Alindayo
2nd	KASANDRA M. ZUNEGA	12	Axolotl	https://youtu.be/78VyWq6QYkU	Alvin Noel D. Gayados	BCNHS	Brenda M. Cariño	Virginia Alindayo
3rd	Althea Faith C. Misa	12	Law of gravity	https://youtu.be/c8PXfZ3ELeY	Joey B. Lartec	BCNHS	Brenda M. Cariño	Virginia Alindayo



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D. STEM TOKPERIMENTS

D. 1 Elementary

Award	Name	Grade Level	Title	Coach	School	School Head	PSDS
1st	Louliana Elijah V. Aquino	5	Good Conductors of Heat	Geraldine C. Domagas	DAES	Cynthia Vitagan	Nancy Dumalili
2nd	Kenzyrhyz Zeke F. Cacho	3	Mentos candy and Coke Experiment	Rita Par- ogan	Quezon Hill Elementary School	Amalia Micklay	Jayrerose Guevara
3rd	Billy Cyrus Belgica	5	Lava Lamp	Jocelyn C. Villalon	Lucban Elementary School	Jackson Cayaos	Brendalee Awingan
4th	Audrey Kate T. Ocyo	6	Lava lamp	Caroline F. Traqueña	JPLES	Jeannette Lacana	Virginia Alindayo

D. 2 Junior High School

Award	Name	Grade Level	Title	Coach	School	Name of Principal	PSDS
1st	Bantic, Averille Q.	JHS	Improved Blowtorch	John Michael A. Guerzon, LPT, MAEd- Bio	SLU – Lab. High School	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
2nd	Ayson, Pink Pauline L.	JHS	Weight Distribution	John Michael A. Guerzon, LPT, MAEd- Bio	SLU – Laboratory High School	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
	Caoli, Yvette Amika Z.	JHS	Spinning Foil	John Michael A. Guerzon, LPT, MAEd- Bio	SLU – Laboratory High School	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili
3rd	Andrea Claire B. Kodiamat	8	Archimedes Principle/ Density	Raquelyn B. Arceo	BCNHS	Brenda M. Cariño	Virginia Alindayo
4th	Christine Kate Galarpe	9	Dancing Raisins	Jessica F. Ruiz	MNHS	Lucia T.Casim	Marilyn Tami-ing



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Department of Education
Cordillera Administrative Region
SCHOOLS DIVISION OF BAGUIO CITY

5th	Judy Ann Laigo	9	Lava Lamp	Jessica F. Ruiz	MNHS	Lucia T. Casim	Marilyn Tami-ing
Finalist	Pinol, Rozmint May M.	JHS	Electromagnets	John Michael A. Guerzon, LPT, MAEd-Bio	SLU – Laboratory High School	Alejandro P. Pablico, LPT, MAEM	Nancy Dumalili

D.3 Senior High School

Award	Name	Grade Level	Title	Youtube link	Coach	School	School Head	PSDS
1st	IVAN AIRON B. BERNABE	12	IONIC THRU STERS	https://youtu.be/Z1wKUTzAB9M	Cindy G. De Jesus	BCNH S	Brenda M. Cariño	Virginia Alindayo
2nd	KASANDRA M. ZUNEGA	12	Axolotl	https://youtu.be/78VyWq6QYkU	Alvin Noel D. Gayados	BCNH S	Brenda M. Cariño	Virginia Alindayo
3rd	Althea Faith C. Misa	12	Law of gravity	https://youtu.be/c8PXfZ3ELeY	Joey B. Lartec	BCNH S	Brenda M. Cariño	Virginia Alindayo

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