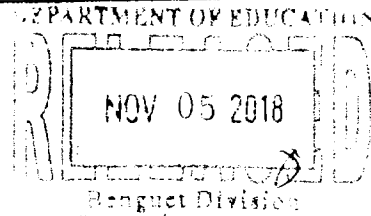




October 26, 2018

**DIVISION MEMORANDUM**

No. 268 5. 2018



**Result of the Division Math and Science Festival**

TO: Public Schools District Supervisors  
Elementary and Secondary School Heads (Public and Private)  
Teachers

1. The Schools Division Office would like to announce the result of the 2018 Division Math and Science Festival held at Tublay School of Home Industries – Main, Acop, Tublay, Benguet last October 10 - 12, 2018.
2. Congratulations to all participants, math and science officials, the host school and especially to all the winners.
3. The overall standing of the districts in the elementary and secondary level are as follows:

**A) Level**

ELEMENTARY			SECONDARY		
Rank	District	Total Score	Rank	District	Total Score
1	La Trinidad	197	1	La Trinidad	292.5
2	Private Schools	90	2	Mankayan	162
3	Mankayan	79	3	Buguias	135.5
4	Buguias	73	4	Tublay	117
5	Tublay	65.5	5	Kapangan	85.5
6	Tuba	50.5	6	Tuba	79.5
7	Bokod	37	7	Private Schools	62
8	Itogon 2	35.5	8	Itogon	56.5

4. Attached is the list of winners.
5. Immediate dissemination of this memorandum is desired.

  
**MARIE CAROLYN B. VERANO, CESO VI**  
Schools Division Superintendent

**RESULT OF THE 2018 DIVISION SCIENCE AND  
MATHEMATICS FESTIVAL  
CONDUCTED ON OCTOBER 10-12, 2018 AT TUBLAY SCHOOL OF HOME INDUSTRIES**

**Math Quiz Grade 3**

Name of Contestant	Name of Coach	School	District	Rank
Kayleigh L. Fianza	Melody C. Familan	HOPE Christian Academy	Private Schools	1
Sharmail Ann Bacuso	Jennifer L. Cayat	BSPED	La Trinidad	2
Aldrin Dale G. Ventura	Betty T. Panonot	Lepanto ES	Mankayan	3

**Math Quiz Grade 4**

Name of Contestant	Name of Coach	School	District	Rank
Tyron Rex L. Gotico	Melody C. Familan	Hope Christian Academy	Private Schools	1
Kesha S. Osgao	Orsula S. Tande	Albis ES	Tublay	2
Ashlyne Joy B. Seling	Glenda Camado	Balatok ES	Itogon 2	3

**Math Grade 5**

Name of Contestant	Name of Coach	School	District	Rank
Houdean Reian P. Legaspi	Evelyn F. Politchay	Mankayan ES	Mankayan	1
Charlie L. Alvarez	Ninia Rose P. Tanan	Acupan ES	Itogon 2	2
Aaron Gomaya	Sheena Mae B. Satol	Star Colleges	Private Schools	3

**Math Grade 6**

Name of Contestant	Name of Coach	School	District	Rank
Marianelle E. Wayan	Mark D. Devag	Paoad ES	Tublay	1
Montogemery O. Bucsit	Arceli E. Felizardo	Ucab ES	Itogon 1	2
Charles C. Ticwala	Patricia E. Alicay	Ampusongan ES	Bakun	3

**Math Quiz 7**

Name of Contestant	Name of Coach	School	District	Rank
Heinrich Jethro C. Familan	Geoffrey G. Canipas		Private Schools	1
Silvester Peping	Eveny S. Bagayao	Kapangan Central NHS	Kapangan	2
Arian Wayne Binwag	Kimberly S. Amoy	Lepanto NHS	Mankayan	3

**Math Quiz 8**

Name of Contestant	Name of Coach	School	District	Rank
Rheanne P. Balag-ey	Trisha Awal	CRSHS	La Trinidad	1
Ea Isabel F. Mamaril	Lea F. Mamaril		Private Schools	2
Sharry Kaye Y. Garcia	Decenia T. Cabacab	Lepanto NHS	Mankayan	3

**Math Quiz 9**

Name of Contestant	Name of Coach	School	District	Rank
Ishtan Karylle Songot	Heather Banagui	CRSHS	La Trinidad	1
Blessilyn S. Bangonan	Marjorie T. Lictag	AMPMNHS	Itogon	2
Jherabel Agyapas	Arcy D. Layugan	TSHI Main	Tublay	3

**Math Quiz 10**

Name of Contestant	Name of Coach	School	District	Rank
Jinky D. Lopez	Melba Canol	GBDAIS-Main	Kapangan	1
Verden John Familan	Jerry G. Cabannag		Private Schools	2
Melarose Seg-ed	Menandro P. Montero	Loo NHS	Buguias	3

**Math Senior High School**

Name of Contestant	Name of Coach	School	District	Rank
Jemimah Menzi	Alpha Britania	Loo NHS	Buguias	1
Kwyne Evanne Verano	Marchad Coilan	CRSHS	La Trinidad	2
Zoraida O. Laita	Jeanna Y. Angluben	Ampusongan NHS-Main	Bakun	3

**Science Quiz 3**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Aimee Rose A. Deponio	Jennifer L. Cayat	BSPED Center	La Trinidad	1
Darwin Jr.A. Anongos	Michelle M. Ngala	Lepanto ES	Mankayan	2
Kirsten Kloe Piluden	Aiko F. Claudio	HOPE Christian Academy	Private Schools	3

**Science Quiz 4**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Angelica T. Pakias	Dolores A. Ticol	Buyagan ES	La Trinidad	1
Azerfrankee E. Basiyo	Dolores S. Paplonot	Sapid ES	Mankayan	2
Camille Joy C. Alonzo	Marie Christine O. Willy	Kabuyao ES	Tuba	3

**Science Quiz 5**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Kalea Anne D. Adebán	Judy Ann K. Bolayo	BSPED Center	La Trinidad	1
Nathaniel Ledsey	Larsen L. Luis	Lomon ES	Kapangan	2
Rhianne C. Sacpa	Martha D. Andulay	Virac ES	Itogon 2	3

**Science Quiz 6**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Malcolm Jared A. Bacuso	Judy Ann K. Bolayo	BSPED Center	La Trinidad	1
Ezekiel T. Pongdad	Jimuel Angel	Benguet Learning Center	Private Schools	2
Ryza L. Madarang	Evelina L. Balangcod	Longboy ES	Kapangan	3

**Science Quiz 7**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Mariko K. Cosalan	Elizabeth R. Silog	TSHI-Main	Tublay	1
Frances Hayley M. Fatog	Julieta C. Malanes	La Trinidad NHS	La Trinidad	2
Asleigh Jan P. Gonsoden	Veneranda P. Dawey		Tuba	3

**Science Quiz 8**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Ajardene O. Palma	Siepreñ O. Mangili	Kapangan Central NHS	Kapangan	1
Shaquela S. Abellera	Cremelda Marie M. Burgos	Sinipsip NHS-Natubleng	Buguias	2
Jomar C. Tarasi	Myrna M. Salis		Atok	3

**Science Quiz 9**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Laarnie Rose Payumo	Maria Fe C. Bumughawi	Mankayan NHS	Mankayan	1
Yeshamel Mendillo	Zusima Carantes		Itogon	2
Jermaine Bugnay	Santa Atinan	Kamora NHS	Kabayan	3

**Science Quiz 10**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Nestor V. Poltic	Denver P. Dokey	CRSHS	La Trinidad	1
Jhenie Ann L. Alilao	Amor P. Parista	Kapangan Central NHS	Kapangan	2
Jhon Allen B. Guisdan	Dominga D. Henry	Bakun NHS-Sinacbat	Bakun	3

**Science Quiz Senior High School**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Jhoshua Leo T. Andaya	Aileen Marie O. San Luis	Atok NHS	Atok	1
Jemaima Ryanne V. Guisala	Roderick A. Nierva	CRSHS	La Trinidad	2
Charlie Mar C. Pulgue	Jennifer B. Antonio	Kibungan NHS	Kibungan	3

**Damath Level II (Whole Number)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Xaghandie Banase	Marlene O. Naboye	Puguis ES	La Trinidad	1
Arjay P. Lopez	Salenia L. Bilagot		Mankayan	2
Eugene G. Kiw-an	Julieta E. Walito		Sablan	3

**Damath Level III (Fractions)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Jobena B. Roberto	Antonia D. Puyao	Maran ES	Tublay	1
Roselle Vicente	Lesly Fermin		Private Schools	2
Jabez C. Palao	Gondina G. Patungao		Kapangan	3

**Damath – Integers (Grade 7)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Arnold D. Avelino	Janice S. Dionesio		Tuba	1
Jetterson May-os	Eveny S. Bagayao	GBDAIS-Main	Kapangan	2
Jan Blaise F. Caw-as	Jocelyn Parlan		Private Schools	3

**Damath – Rational (Grade 8)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Clijen L. Sagayo	Liza Lumadao	GBDAIS-Main	Kapangan	1
Roberto Justo	Jocelyn Parian		Private Schools	2
Rembert Wagsey	Crispher Ediong Sr.		La Trinidad	3

**Damath (Grade 9)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Johnson C. Pacliwan,	Eljun Arisga	Tuba Central NHS	Tuba	1
Jericho Bautista	Mary Joy Camiling		Mankayan	2
Christian A. Gonsoden	Chrispher Ediong		La Trinidad	3

**Damath – Polynomial (Grade 10)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Kenneth Jun Asiong	Crispher Ediong		La Trinidad	1
Czyner Charles P. Zarate	Joseph Bacani		Tuba	2
Sheika Nightingale Bitaga	Josephine Wacnang	Mankayan NHS	Mankayan	3

**Sci-dama- Level 2 (Grade 3 & 4)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Sherie Dimple C. Omas	Maring A. Nginsayan	Mt. Pulag ES	Kabayan	1
Jansen Alaister A. Dulagan	Paul Elvis A. Alam-am	Saint Therese- Tomay	Private Schools	2
Charles D. Peligman	Mae Cleff Zarate		La Trinidad	3

**Sci-dama- Level 3 (Grade 5 & 6)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Mark P. Balang	Martina M. Fernandez	Ewa-Bokes ES	Kibungan	1
Mereyl Grace T. Taplin	Felomina T. Taplin		Tuba	2
Jumel A. Acyawan	Jessie S. Balagsa		Kapangan	3

**Sci-dama- Electro (Grade 7)**

<b>Name of Contestant</b>	<b>Name of Coach</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Zhyrel Paul B Tuba-ang	Julita Caytap	CRSHS	La Trinidad	1
Mark Tay-eo	Cherry-Ann Labbot		Tuba	2
Jover Tuacan	Jay-ar Dong-gaas	Tabio NHS	Mankayan	3

### Sci-Notation Dama (Grade 8)

Name of Contestant	Name of Coach	School	District	Rank
Japhet Dan L. Ducayso	Felix G. Ancheta	Benguet NHS	La Trinidad	1
Sherein Jesi M. Ringor	Tristan Malafu	Mankayan NHS	Mankayan	2
Nathaniel C. Ananey	Amor Parista	Kapangan Central NHS	Kapangan	3

### THI- Scidama (Grade 9)

Name of Contestant	Name of Coach	School	District	Rank
Eddie Ang-ayan	Chrispher Ediong		La Tinidad	1
Nicole Lyn Bangaan	Loida Boslay	TSHI-Main	Tublay	2
Jesse James Osting	Patricia Ngaosi	Sinipsip NHS	Buguias	3

### Thermo Scidama (Grade 10)

Name of Contestant	Name of Coach	School	District	Rank
Maui Ligtinen	Sylvia Nabe	Kibungan NHS	Kibungan	1
Ishi Carbonilla	Delfin Chawan		Tuba	2
Odemar Sara-an	Jocelyn Mero		Itogon	3

### Mathematical Investigation -Research Based (Cluster 1) Individual

Proponent	Title	School	District	Adviser	Rank
Zhianela Rishun G. Vicente	Total no. of Hexagon in a Hexagon with X layers	Benguet NHS- Main	La Trinidad	Jufelia B. Paduyao	1
Vernon M. Palking	Finding the Area of an Octa-Star to the $n^{\text{th}}$ Stage	Benguet NHS- Main	La Trinidad	Jufelia B. Paduyao	2
Shadrach F. Garriga	Loom Band Weaving: Optimized	Mankayan NHS	Mankayan	Jardson S. Onio	3
Maria Emmanuela B. Mendoza	Octosquares	Ampucan NHS	Itogon	Jim D. Alberto	4

### Mathematical Investigation -Research Based (Cluster 1) Team

Proponent	Title	School	District	Adviser	Rank
Prince Denzel Ayyang, Jester Castillejos	The no. of Overlapping 1-unit Rhombuses in $p^{\text{th}}$ Layer of n-gon Iteration where $n \geq 4$	Benguet NHS- Main	La Trinidad	Jufelia B. Paduyao	1
Rhon C. Compala Jhone L. Galvez Franz Robin N. Ong	Total number of Parallelograms formed in an Equilateral Triangle with n Layer	Benguet NHS - Main	La Trinidad	Jufelia B. Paduyao	2
Connan Clark Ngaya Ephraim Villase	Lead Number of Total Cycle of the Circle in Rotation to their Diameter	Kings College of the Philippines	Private Schools	Glory Ann Julien C. Winnan	3

### Mathematical Investigation -Research Based (Cluster 2) Individual

Proponent	Title	School	District	Adviser	Rank
Penuelle T. Nerja	Side Length of the n-gon in the $k^{\text{th}}$ Layer surrounding the n-gon with m no. of semicircles connected to each side where $n \geq 5$	CRSHS	La Trinidad	Alvin Guaki	1
Mnemosyne P. Taltala	The Area of Expanding Weathervanes	CRSHS	La Trinidad	Alvin Guaki	2
Jhea Britz Alos	Side Length of the n-gon, $n \geq 4$ at k iteration where its side is divided into segments	CRSHS	La Trinidad	Alvin Guaki	3

Proponent	Title	School	District	Adviser	Rank
Hyeon Taek Oh	Radius of the $y^{\text{th}}$ Inscribed n-gon with Circumcircle Whirl in a n-gon with Rotation at K Division of the Side of a n-gon	CRSHS	La Trinidad	Alvin Guaki	4
Allen Raye A. Pal-iwen	The Area of the Triangle Formed by Connecting the Lower Leftmost Point of the n-gon to the Midpoint of the Base after Rotating the n-gon Counter Clockwise K Times	Cordillera Regional Science High School	La Trinidad	Alvin Guaki	5

#### Mathematical Investigation -Research Based (Cluster 2) Team

Proponent	Title	School	District	Adviser	Rank
Karen Joy L. Canabe, Trisha Nicole S. Cuyan	Perimeter and Area of the Spiral Figure Formed from Circumscribing a Regular n-gon at the m Divisions of Sides of the Previous n-gon in k Iteration	Cordillera Regional Science High School	La Trinidad	Heather Banagui	1
Kyra Gayle Sali, Jelan Maske	Number of All Triangles Formed by the Diagonals and Sides of a Regular Polygon	Cordillera Regional Science High School	La Trinidad	Alvin Guaki	2
Willmarl B. Wakit, Jeremy Jhane Mayames, Darlene Dale Oggang	The Total Number of Outward Triangles Whose Apex is Facing the Sides of a n-gon in $k^{\text{th}}$ Layers	Cordillera Regional Science High School	La Trinidad	Alvin Guaki	3
Valjunyor J. Alfiler, Engelbert A. Lupian	Finding the Area Excluding Circles as The Area of the Circles Decreases in Every Iteration Towards Each Vertex of an N-gon	Cordillera Regional Science High School	La Trinidad	Alvin Guaki	4
Ivon Clyde A. Daganos, Crystal Dale S. Espada, Rain Q. Gacula	Formula for Determining the Base Area of Any Regular Pyramid	Mankayan National High School	Mankayan	Josephine Wacnang	5

#### Mathematical Investigation -Problem-Based Individual

Proponent	Title	School	District	Adviser	Rank
Sage Evan T. Villaga	Divisibility by Powers of 2 in a Fibonacci-like Sequence	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	1
Marc Daniel A. Dayang	Solving for Any Term in the Sequence (3,2,5,7,12,19,...) Given Two Relative Terms	Loo National High School	Buguias	Halem Compalas	2
Armi-Jay R. Paragas	The 3-2 Fibonacci Sequence	Loo National High School	Buguias	Halem Compalas	3
DJ K. Esnara	Deriving Formulas for Investigated Patterns in Arithmetic Sequences	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	4
Aiken L. Penchog	Finding A Pattern to the Sequence 3,2,5,7,12,19,31,50,81...	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	5

### Mathematical Investigation -Problem-Based Team

Proponent	Title	School	District	Adviser	Rank
Frazel S. Baniaga, Kyla Gayle Morales	Properties and Relationships of the Operation Star in the Equation $X \cdot y = x_1y - x - y + 2$	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	1
Jasper Amiel Alangdeo, Frederick Bag-ayan Jr.	Locating Cells in a Star Table Containing Multiples of 3	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	2
Kyzer Broux A. Bugatan, Raymart Libang	An Investigation on the Properties of Operation Star on G	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	3
Jonas Joseph B. Bantasan, Arvie F. Divinagracia	A Sequence and Summations Involving Operation of Star on G	Tublay School of Home Industries-main	Tublay	Agustina B. Padinay	4
Mae Bless Alagon, Kint Pinas	The General Equation of the Sum of the Sequences Derived for $y \geq 2$	Cordillera Regional Science High School	La Trinidad	Wilma Adawan	5

### Science Investigatory Project – Elementary (Individual)

Proponent	Title	School	District	Adviser	Rank
Crisha Kate A. Valdez	The Potential Effect of Common Purslane ( <i>Portulaca oleracea</i> ) as Waterproof Agents on Windshields	Puguis Elementary School	La Trinidad	Caesar C. Abellera	1
Dexine Lei T. Manapeng	Innovative Architectural Bricks Using Rice ( <i>Orza sativa</i> ) Hull and Mussel ( <i>Mytilus edulis</i> ) Shell	Brilliant Child Christian Academy	Private Schools	Oscar D. Bautista	2
Richie Vonn C. Espada	Benguet Pine ( <i>Pinus insularis</i> ) as a Bio-source of Pesticide	Lepanto Elementary School	Mankayan	Betty A. Panonot	3
April Rose B. Ba-oy	Response of Brassica rapa to Fermented Ipomae batatas: A Potential Fertilizer	Buguias Central School	Buguias	Jocelyn P. Langbis	4
Krismar Joy B. Bas-ilan	Jackfruit ( <i>Artocarpus heterohyllus</i> ) Latex as a Potential Source of Natural Pro-Bio Mosquito Trap	Puguis Elementary School	La Trinidad	Joemar P. Soriano	5

### Science Investigatory Project – Elementary (Team)

Proponent	Title	School	District	Adviser	Rank
Jhervis Clint P. Catalino, Gwyneth B. Caga, Xhanelle L. Alcos	Melting Device: A Tool for Recycling Common Plastic Waste Materials	Bosleng Elementary School	Atok	Beatriz B. Caga	1
Elijoy Dionisio, Xyrille Sangdaan	The Feasibility of Taro ( <i>Colocasia esculenta</i> ) Juice as Green Technology Hydroguard on Window Glasses	Puguis Elementary School	La Trinidad	Caesar C. Abellera	2

Aimary Veniz T. Peredo, Marvin Kyle B. Manalo, Japheth D. Oyard	Influence of Polyphonic Tones -sound Sequence on the Morphological Sensitivities of Onion ( <i>Allium cepa</i> )	Brilliant Child Christian Academy	Private Schools	Oscar D. Bautista	3
Aubrey Joy G. Songcuan, Phoebe Jane M. De La Cruz, Athena Eunice G. Mabiase	Rosemary, Sunflower and Pandan Extract as Bio-Larvicide	Lepanto Elementary School	Mankayan	Anneline V. Comila	4
Jahmaica Vhain T. Peredo, Paul Dagsi T. Payoyo, John Carlo P. Umma	Rice Hull and Cassava Peeling Charcoal Briquette	Brilliant Child Christian Academy	Private Schools	Oscar D. Bautista	5

#### Science Investigatory Project Secondary – Life Science (Individual)

Proponent	Title	School	District	Adviser	Rank
Arianne S. Abance	Antifungal Potential of Mokusako (Wood Vinegar) Against <i>Aspergillus</i> , Molds in Wood	Tublay School of Home Industries-main	Tublay	Loida A. Boslay	1
Jamaica Mae L. Gantas	Antifungal Potential of Mokusako Against Ceramic Tile Molds	Tublay School of Home Industries-main	Tublay	Sharon Q. Domeris	2
Leoven Fernan Palasi	Bio-insecticidal Effects of "TERA" BARKS to Mosquito Wrigglers	Mankayan National High School	Mankayan	Benifreda Frenandez	3
Maily Kim C. Bumughawi	DIY (Do It Yourself) Wart Remover from Expired Vit. C and Banana Peelings	Mankayan National High School	Mankayan	Benifreda Frenandez	4
May Ann T. Gulikey	Pesticide Potential of Macu-Peel (Banana Peelings) for <i>Phaseolus Bulgaris</i> (Beans)	Tublay School of Home Industries-main	Tublay	Loida A. Boslay	5

#### Science Investigatory Project Secondary – Life Science (Team)

Proponent	Title	School	District	Adviser	Rank
Wrenzel Kuert A. Pladio, Ritchelle Valerie C. Espada, Hannah T. Pandosen	Decreasing Copper Toxicity in Soil Using Dried Rice Straw: Characterizing Its Effect on Onion Leeks ( <i>Allium ampeloprasum</i> )	Lepanto National High School	Mankayan	Wanda Lyn A. Pladio	1
Nikki M. Cayatoc, Deborah L. Andoy, Ricard E. Falyao	Germination of Pechay Plant ( <i>Brassica chinensis</i> L. ev. Black Behi) on Pulverized Dried Benguet Pine ( <i>Pinus kesiya</i> ) Needles	Lepanto National High School	Mankayan	Wanda Lyn A. Pladio	2
Emmanuel Ganangan, Rolly Chard P. Tugay-an, Lyzerie Maegan G. Collado	<i>Embelia Philippinensis</i> as a Natural Preservative for Chanos Chanos	Benguet National High School	La Trinidad	Cheryl J. Garcia	3
Veronica Velasco, Nellie Jen Caytap	Bee Propolis as Anti-Palmar Hyperhidrosis	Mankayan National High School	Mankayan	Benifreda Frenandez	4.5
Christine B. Dao-as, Nika S. Domiclong, Shekinah Kaye A. Tugad	<i>Achatina fulica</i> as a Wound Healing Gel	Mankayan National High School	Mankayan	Benifreda Frenandez	4.5



**Science Investigatory Project Secondary – Physical Science (Individual)**

<b>Proponent</b>	<b>Title</b>	<b>School</b>	<b>District</b>	<b>Adviser</b>	<b>Rank</b>
Laizle Anne G. Paing	Evaluation of Soil Quality Parameters of Red Soil Treated with Organic Liquid Fertilizers	Tublay School of Home Industries-main	Tublay	Loida A. Boslay	1
Gwyneth Nicole L. Pecay	The Wonders of Manual Noodle Maker	Loo National High School	Buguias	Jomar B. Palileng	2
Danford B. Dominguez	Scrap-made Multipurpose Hose Reel	Mankayan National High School	Mankayan	Benifreda Frenandez	3
Trisha Frea P. Songyap	Phytoremediation Potential of Thysanolaena Maxima for Mine Tailings	Kamora National High School	Kabayan	Santa B. Atinan	4
Ailyn Rose E. Tawang	Detection of Cyanide, Mercury and Organophosphates Using Selected Crude Extracts of Anthocyanin Containing Plants	Kibungan National High School	Kibungan	Jennifer B. Antonio	5

**Science Investigatory Project Secondary – Physical Science (Team)**

<b>Proponent</b>	<b>Title</b>	<b>School</b>	<b>District</b>	<b>Adviser</b>	<b>Rank</b>
Joshua Fred A. Paterno, Marcelo C. Bokilis Jr., Yolanda A. Tiwaken	Soil Electricollector	Tublay School of Home Industries - main	Tublay	Nelia L. Depaynos	1
Andrew Catayao, Chadrick Clent Cawaing, Kyle Prynne Mendoza	Feasibility of Areca catechu Nut Husk as Additive Material for Making Paper	Benguet National High School	La Trinidad	Cheryl J. Garcia	2
Sandro Apalla Jr., Markbonn Bognalen	Eco-friendly Biomethanol from Cow Manure and Vegetable Waste as Fuel Alcohol Source	Mankayan National High School	Mankayan	Myrick Y. Ao-asen	3
Ella May P. Londob, Valeri C. Subang	Pro-life Biobriquettes from Paper Cups, Paper Plates and Tissue Role Holder	Mankayan National High School	Mankayan	Benifreda Frenandez	4
Dianne Althea G. Mabiasen, Krishell Fe A. Camodag, Jobert D. Gorospe	Pulverized Eggshells as an Alternative Soil Neutralizer	Lepanto National High School	Mankayan	Wanda Lyn A. Pladio	5

**TEACHER CATEGORY**

**Strategic Intervention Material Elementary – Mathematics (Grade 4)**

<b>Teacher</b>	<b>Title</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Evalisa W. Abance	Multiplying Numbers Up to 3 Digits	Buyagan ES	La Trinidad	1
Melody C. Familan	Prime and Composite Numbers	Hope Christian Academy	Private Schools	2
Maribel B. Yawan	Solving Multistep Routine	Loo ES	Buguias	3

Aimary Veniz T. Peredo, Marvin Kyle B. Manalo, Japheth D. Oyard	Influence of Polyphonic Tones -sound Sequence on the Morphological Sensitivities of Onion ( <i>Allium cepa</i> )	Brilliant Child Christian Academy	Private Schools	Oscar D. Bautista	3
Aubrey Joy G. Songcuan, Phoebe Jane M. De La Cruz, Athena Eunice G. Mabiassen	Rosemary, Sunflower and Pandan Extract as Bio-Larvicide	Lepanto Elementary School	Mankayan	Anneline V. Comila	4
Jahmaica Vhain T. Peredo, Paul Dagsi T. Payoyo, John Carlo P. Umma	Rice Hull and Cassava Peeling Charcoal Briquette	Brilliant Child Christian Academy	Private Schools	Oscar D. Bautista	5

### Science Investigatory Project Secondary – Life Science (Individual)

Proponent	Title	School	District	Adviser	Rank
Arianne S. Abance	Antifungal Potential of Mokusako (Wood Vinegar) Against <i>Aspergillus</i> , Molds in Wood	Tublay School of Home Industries-main	Tublay	Loida A. Boslay	1
Jamaica Mae L. Gantas	Antifungal Potential of Mokusako Against Ceramic Tile Molds	Tublay School of Home Industries-main	Tublay	Sharon Q. Domeris	2
Leoven Fernan Palasi	Bio-insecticidal Effects of “TERA” BARKS to Mosquito Wrigglers	Mankayan National High School	Mankayan	Benifreda Frenandez	3
Maily Kim C. Bumughawi	DIY (Do It Yourself) Wart Remover from Expired Vit. C and Banana Peelings	Mankayan National High School	Mankayan	Benifreda Frenandez	4
May Ann T. Gulikey	Pesticide Potential of Macu-Peel(Banana Peelings) for <i>Phaseolus Vulgaris</i> (Beans)	Tublay School of Home Industries-main	Tublay	Loida A. Boslay	5

### Science Investigatory Project Secondary – Life Science (Team)

Proponent	Title	School	District	Adviser	Rank
Wrenzel Kuert A. Pladio, Ritchelle Valerie C. Espada, Hannah T. Pandosen	Decreasing Copper Toxicity in Soil Using Dried Rice Straw: Characterizing Its Effect on Onion Leeks ( <i>Allium ampeloprasum</i> )	Lepanto National High School	Mankayan	Wanda Lyn A. Pladio	1
Nikki M. Cayatoc, Deborah L. Andoy, Ricard E. Falyao	Germination of Pechay Plant ( <i>Brassica chinensis</i> L. ev. Black Behi) on Pulverized Dried Benguet Pine ( <i>Pinus kesiya</i> ) Needles	Lepanto National High School	Mankayan	Wanda Lyn A. Pladio	2
Emmanuel Ganangan, Rolly Chard P. Tugay-an, Lyzerie Maegan G. Collado	<i>Embelia Philippinensis</i> as a Natural Preservative for Chanos Chanos	Benguet National High School	La Trinidad	Cheryl J. Garcia	3
Veronica Velasco, Nellie Jen Caytap	Bee Propolis as Anti-Palmar Hyperhidrosis	Mankayan National High School	Mankayan	Benifreda Frenandez	4.5
Christine B. Dao-as, Nika S. Domiclong, Shekinah Kaye A. Tugad	<i>Achatina fulica</i> as a Wound Healing Gel	Mankayan National High School	Mankayan	Benifreda Frenandez	4.5

**Strategic Intervention Material Elementary – Mathematics (Grade 5)**

Teacher	Title	School	District	Rank
Jennette G. Magciano	Proportions	Alapang ES	Buguias	1
Genevive B. Pugong	Solving Routine and Non	Sto. Nino ES	Tublay	2
Eleanor A. Mayomis	Rounding Decimals to Nearest Hundredths and Thousandths	Ambuklao ES	Bokod	3

**Strategic Intervention Material Elementary – Mathematics (Grade 6)**

Teacher	Title	School	District	Rank
Mary Ann P. Cabinta-Palaci	Addition of Dissimilar Fractions	Loo ES	Buguias	1
Cylene A. Bacbac	Proportions	Puguis ES	La Trinidad	2
Eleanor A. Mayomis	Subtracting Dissimilar Fractions	Anbuklao ES	Bokod	3

**Strategic Intervention Material Elementary – Science (Grade 4)**

Teacher	Title	School	District	Rank
Yolly O. Sarado	I Know Where My Food Goes	Ambuklao ES	Bokod	1
Raquel D. Gayaso	Your Bones	Naytokyab ES	Buguias	2
Victoria Magsilao	Human Brain	Buyagan ES	La Trinidad	3

**Strategic Intervention Material Elementary – Science (Grade 5)**

Teacher	Title	School	District	Rank
Esterlyn D. Khayog	Female Reproductive Organ	Buyagan ES	La Trinidad	1
Jovita P. Sapalit	Human Female Reproductive System	Camilo-Lucaben ES	Kibungan	2
Susan F. Imado	Female Reproductive Organ	Pontino ES	Tublay	3

**Strategic Intervention Material Elementary – Science (Grade 6)**

Teacher	Title	School	District	Rank
Lily Ann B. Hilario	The Heart	La Trinidad Central School	La Trinidad	1
Eden Grace A. Balagsa	The Amazing Skeletal System	Ambuklao ES	Bokod	2
Avelina B. Lacaden	Major Parts and Function of the Brain	Naytokyab ES	Buguias	3

**Strategic Intervention Material Secondary – Mathematics (Grade 7)**

Teacher	Title	School	District	Rank
Bredalyn C. Tongalog	Addition of Integers	Loo NHS	Buguias	1

**Strategic Intervention Material Secondary – Mathematics (Grade 10)**

Teacher	Title	School	District	Rank
Jeaniellen B. Laduan	Geometric Sequence	Bangao National High School	Buguias	1
Menandro P. Montero	Harmonic Sequence	Loo National High School	Buguias	2

**Strategic Intervention Material Secondary - Science (Grade 7)**

Teacher	Title	School	District	Rank
Mary Claire C. Pol-oacan	Classification of Matter	Kamora National High School	Kabayan	1

**Strategic Intervention Material Secondary - Science (Grade 8)**

Teacher	Title	School	District	Rank
Khelyn M. Lino	Atomic Structure	Loo National High School	Buguias	1

**Strategic Intervention Material Secondary - Science (Grade 9)**

<b>Teacher</b>	<b>Title</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Marcelita B. Soriano	The System of Life	Loo National High School	Buguias	1
Johnny P. Buasen	Project Your Style in Motion	Ampusongan National High School	Bakun	2

**Strategic Intervention Material Secondary - Science (Grade 10)**

<b>Teacher</b>	<b>Title</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Nelia L. Depaynos	The Endocrine System	TSHI-Main	Tublay	1
Jomar B. Palileng	The Elements of Biomolecules	Loo National High School	Buguias	2

**Best Science Teacher**

	<b>Teacher</b>	<b>School</b>	<b>District</b>	<b>Rank</b>
Elementary	Jocelyn P. Langbis	Buguias Central School	Buguias	1
	Vivian K. Guzman	Suyoc ES	Mankayan	2
	Judith S. Marino	Albis ES	Tublay	3
Secondary	Loida A. Boslay	TSHI -main	Tublay	1
	Mary Ann P. Malipe	Benguet National High School	La Trinidad	2

**Over all Ranking (Elementary)**

<b>District</b>	<b>Total no. of Points</b>	<b>Rank</b>	<b>Award</b>
La Trinidad	197	1	Champion
Private Schools	90	2	First Runner up
Mankayan	79	3	Second Runner up
Buguias	73	4	Third Runner up
Tublay	65.5	5	Fourth Runner up
Tuba	50.5	6	Fifth Runner up
Bokod	37	7	Sixth Runner up
Itogon 2	35.5	8	Seventh Runner up

**Over all Ranking (Secondary)**

<b>District</b>	<b>Total no. of Points</b>	<b>Rank</b>	<b>Award</b>
La Trinidad	292.5	1	Champion
Mankayan	162	2	First Runner up
Buguias	135.5	3	Second Runner up
Tublay	117	4	Third Runner up
Kapangan	85.5	5	Fourth Runner up
Tuba	79.5	6	Fifth Runner up
Private Schools	62	7	Sixth Runner up
Itogon	56.5	8	Seventh Runner up