
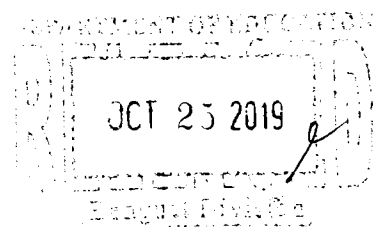
	<p style="text-align: center;">             Republic of the Philippines              Department of Education              Cordillera Administrative Region  <b>SCHOOLS DIVISION OF BENGUET</b>              Wangal, La Trinidad, Benguet              Tel.No.- 422 6570    Email Add- benguet@deped.gov.ph           </p>		<p>             Document Code: SDO-BENG-QF-OSDS-SDS-003              Revision: 00              Effectivity date: 09-03-2018           </p>
<p><b>Division Memo No. <u>332</u> s.2019</b></p>		<p>Name of Office: <b>OSDS-SDS Office</b></p>	

TO: Public Schools District Supervisors/District In-Charge  
Public and Private Elementary and Secondary School Heads  
Teachers

FROM: **BENILDA M. DAYTACA, EdD, CESO VI**  
Assistant Schools Division Superintendent  
S/OIC- Office of the Schools Division Superintendent



SUBJECT: **OFFICIAL RESULTS OF THE DIVISION SCIENCE AND MATHEMATICS FESTIVAL**

DATE: October 21, 2019

- 1) The Schools Division of Benguet would like to announce the result of the 2019 Division Science and Mathematics Festival held at Loo National High School and Loo Elementary School, Buguias, Benguet last October 9-11, 2019.
- 2) The list of qualified participants for the Regional Festival to be conducted at Tabuk City on November 26-29, 2019 will be released in a separate memorandum.
- 3) The overall top 5 winners in Elementary and Secondary levels are as follows:

	<b>Elementary</b>		<b>Secondary</b>
Champion	LA TRINIDAD	Champion	LA TRINIDAD
1 <sup>st</sup> Runner-Up	MANKAYAN	1 <sup>st</sup> Runner-Up	MANKAYAN
2 <sup>nd</sup> Runner-Up	BUGUIAS	2 <sup>nd</sup> Runner-Up	TUBLAY
3 <sup>rd</sup> Runner-Up	BOKOD	3 <sup>rd</sup> Runner-Up	BUGUIAS
4 <sup>th</sup> Runner-Up	TUBLAY	4 <sup>th</sup> Runner-Up	KAPANGAN

- 4) The complete lists of all winners in the individual and team categories are found in the enclosure.
- 5) This office congratulates all the winners, participants, coaches, Math and Science Officers and Officials and the host schools for the successful conduct of this event.
- 6) Immediate dissemination of and strict compliance with this memorandum is desired.

**OFFICIAL RESULTS OF THE SCIENCE AND MATHEMATICS FESTIVAL**  
 Held at Loo HNS and Loo ES on October 9-11, 2019

**ELEMENTARY**

**SCIENCE QUIZ RESULT - GRADE 3**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Tublay	Lizly Shane B. Quirit	Feny Q. Aniban	Becday Chasoras Lamsis Elementary School
2	Kapangan	Akihiro M. Dugos	Maria Elena M. Dugos	Pongayan Barrio School
3	Sablan	Rajo Radcliff L. Casavay	Mildred C. Calado	Sablan Central School

**SCIENCE QUIZ RESULT - GRADE 4**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Kibungan	Arhiane B. Bialno	Pauline B. Dongpol	Enrique Jose Elementary School
2	Mankayan	Darwin A. Anongas Jr.	Persenia M. Tinong	Lepanto Elementary School
3	La Trinidad	Clarence Gabrielle R. Quibol	Dolores A. Ticol	Buyagan Elementary School

**SCIENCE QUIZ RESULT - GRADE 5**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Kapangan	Shimea Pearl C. Pinong	Daisy B. Cianno	Pongayan Barrio School
2	La Trinidad	Ryzen L. Sagantiyog	Cerila K. Zarate	La Trinidad Central School
3	Tuba	Angel Nevaeh A. Ocampo	Erlinda L. Tadao	Besong Saddle Elementary School

**SCIENCE QUIZ RESULT - GRADE 6**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	La Trinidad	Kalea Anne D. Adebán	Judy Ann K. Bolayo	Benguet SPED Center
2	Bakun	Aisha Mae B. Bad- ay	Rebecca O. Tanas	Bagtangan Elementary School
3	Itoyon I	Hennesie Esguerra	Lea B. Consi	Pacalso Elementary School

**MATHEMATICS QUIZ RESULT - GRADE 3**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	BPSA	Blais Angelo Dao- anis	Melody C. Familan	Hope Christian Academy
2	Mankayan	Aleyan Nicole Lipas	Lourdes U. Campos	Mankayan Central School
3	La Trinidad	Gyrle Rianne Egsan	Jennifer L. Cayat	Benguet SPED Center

**MATHEMATICS QUIZ RESULT - GRADE 4**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	BPSA	Kayleigh L. Fianza I	Melody C. Familan	Hope Christian Academy
2	La Trinidad	Sharmail Ann A. Bacuso	Raquel O. Cirilo	Benguet SPED Center
3	Itogon I	Kristoff Benn I. Bargaso	Jasmin K. Liwan	Gumatdang Elementary School

**MATHEMATICS QUIZ RESULT - GRADE 5**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Tublay	Kesha S. Osngao	Orsula S. Tande	Albis Elementary School
2	Itogon I	Zyrah U. Cruz	Claudine D. Tauli	Ucab Elementary School
3	Mankayan	Hanah Joy Caswang	Evelyn F. Politchay	Mankayan Central School

**MATHEMATICS QUIZ RESULT - GRADE 6**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	La Trinidad	Keona A. Bangsi – il	Fausto B. Pandosen	Benguet SPED Center
2	Mankayan	Houdean Reian P. Legaspi	Venessa B. Galletes	Mankayan Central School
3	BPSA	Josiah L. Camaeg	Jonathan T. Agayao	Hope Christian Academy

**INVESTIGATORY PROJECT- INDIVIDUAL**

RANK	DISTRICT	TITLE	PROPONENT	COACH	SCHOOL
1	La Trinidad	Shupidan Juice Used as Green Technology Hydroguard on Windshields	Crisha Kate A. Valdez	Caesar C. Abellera	Puguis Elementary School
2	Buguias	Response of Allium Ampeloprasum to Vermicoposting Organic Farming	Crizabelle M. Bigo	Melisa T. Valdez	Buguias Central School
3	Mankayan	Pine Needles ( Pinus Insularis) Against Weed Growth	Leisllyn R. Tan- ang	Flodeline L. Garcia	Mankayan Central School
4	Mankayan	Larvicidal Potential of Eupatorium Capillifolium on Culex Larvae	Charisse P. Valera	Betty T. Panonot	Lepanto Elementary School
5	La Trinidad	The Feasibility of Taro ( Colocasia Esculenta ) Juice Solution as Organic Window Glass Cleaner	Stephanie Manalo	Caesar C. Abellera	Puguis Elementary School

**INVESTIGATORY PROJECT- TEAM**

RANK	DISTRICT	TITLE	PROPONENT	COACH	SCHOOL
1	Buguias	Insecticidal Ability of Dried Rhizomes Acorus Calamus to Sitophilus Granarius	Gepsy Jiselle P. Langbis Jaycee Velle L. Esguerra Charise Gail Calpasi	Jocelyn p. Langbis	Buguias Central School
2	Buguias	The Efficiency of Electric Drill Powered Sieving Machine	Lyra Flore B. Bugtong Jairah Mae B. Dupingay Mae Heart V. Prudenciado	Jonathan I. Gayaso	Kimpit Elementary School
3	Mankayan	Paper and Pulverized Dried Pine Needle Palettes as Fuel for Cooking	Bailey Johan A. Billiones Jeric B. Mendoza Marika Fiona C. Velaso	Sharon C. Lamagan	Sapid Elementary School
4	Mankayan	Bio Pesticide from “ Dengaw” ( Acorus Calamus) Against Snails	Adrielle Nicole V. Buena Marc Joseph L. Kuyangoan Jelaine T. Velaso	Faith Lesley D. Cadaweng	Mankayan Central School
5	Mankayan	Sunflower and Chili Pepper Extract as Molluscidal to Young Garden Snails ( Cornu Aspersa)	Alvin Jay t. Panonot Trisha Mae D. Padsuyan Anne Claire P. Safawil	Carmelita M. Balas	Lepanto Elementary School

**WHOLE NUMBER DAMATH**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Itoyon I	Janelle Rhian S. Tomino	Randall P. Napeek	Maximino F. Lopez Elementary School
2	La Trinidad	Andrei Franz A. Baliwawa	Maria Zenaida B. Juguilon	Bekkel Elementary School
3	Kibungan	Nikki Shane Fernandez	Martina M. Fernadez	Ewa – Bokes Elementary School

**FRACTION DAMATH**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Mankayan	Mark Dave B. Gumabol	Nelson B. Bang- as	Marivic Elementary School
2	Kibungan	Regie D. Balatong	Augustina A. Agmaliw	Es- ess S. Alodos Elementary School
3	Itoyon I	Jasmine Mae J. Tomino	Randall Napeek	Maximino T. Lopez Elementary School

**WATER PATROL**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Tuba	Erlvinz Rahul L. Tadao	Felomina T. Taplin	Besong- Saddle Elementary School
2	Tublay	Zyrell Shane T. Tacay	Gertrude C. Onso	Moran Elementary School
3	Atok	Ron Alexis P. Parista	Norma P. Parista	Boneng Elementary School

**POWER PATROL**

RANK	DISTRICT	NAME OF PUPIL	COACH	SCHOOL
1	Atok	Jaswayne Karl T. Cadias	Vickie C. Laloy	Filomina P. Cating Elementary School
2	La Trinidad	Jimmylou B. Calayon	Danica Z. Joaquin	Pagal Elementary School
3	Tublay	Charlztone P. Mata	Samel S. Dales	Albis Elementary School

**STRATEGIC INTERVENTION MATERIAL- SCIENCE- GRADE 4**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	La Trinidad	Identifying and Describing the Parts of Animals for Food Getting and Eating	Letecia S. Canuto	Longlong Elementary School
2	Mankayan	The Function of the Kidneys	Marieta P. Marquez	Suyoc Elementary School
3	Bakun	The Main Parts and Functions of the Skeletal System	Juliet P. Balangoy	Bakun Central School

**STRATEGIC INTERVENTION MATERIAL- SCIENCE- GRADE 5**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	La Trinidad	Mission to the Moon	Keziah Bagayao	Puguis Elementary School
2	Mankayan	Physical and Chemical Changes	Loradel B. Lomido	Bulalacao Elementary School
3	Bokod	Modes of Reproduction: Flowering Plants	Aileen D. Salbino	Ambayec Elementary School

**STRATEGIC INTERVENTION MATERIAL- SCIENCE- GRADE 6**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	La Trinidad	The Structure and Functions of the Digestive System	Rosana M. Lucas	Puguis Elementary School
2	Buguias	The Human Respiratory System	Jeannette G. Magciano	Alapang Elementary School
3	Buguias	Vertebrates	Florita U. Agalbis	Bacasen- Wakit Elementary School

**STRATEGIC INTERVENTION MATERIAL- MATHEMATICS - GRADE 4**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	Buguias	Multiplying with Regrouping	Raquel P. Gayaso	Buguias Central School
2	Bokod	Least Common Multiple of Up to Three Numbers	Zenaida S. Dasdas	Bokod Central School
3	Bakun	Solving Multi- step Routine and Non- routine Problems Involving Multiplication and Addition or Subtraction	Nancy T. Balanban	Sinacbat Elementary School

**STRATEGIC INTERVENTION MATERIAL- MATHEMATICS - GRADE 5**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	La Trinidad	Divisibility Rules	Mac Taner T. Almazan	Puguis Elementary School
2	Mankayan	Subtracting Mixed Dissimilar Fractions With or Without Regrouping	Marieta E. Gaong	Cabitin Elementary School
3	Buguias	Multiplying Fractions	Melisa T. Valdez	Buguias Central School

**STRATEGIC INTERVENTION MATERIAL- MATHEMATICS - GRADE 6**

RANK	DISTRICT	TITLE	PROPONENT	SCHOOL
1	La Trinidad	Proportion	Cylene A. Bacbac	Puguis Elementary School
2	Bokod	Division of Mixed Fractions and Simple Fraction	Aileen Sabino	Ambayec Elementary School
3	Buguias	Proportion	Jeannette G. Magciano	Alapang Elementary School

**OUTSTANDING SCIENCE TEACHER**

RANK	DISTRICT	TEACHER CANDIDATE	SCHOOL
1	Bakun	Lilia Saguibal	Talbino Elementary School
2	Bokod	Jasmine B. Relay	Bantas Sounding Elementary School
3	La Trinidad	Efagenia L. Paing	Balili Elementary School

**OUTSTANDING MATHEMATICS TEACHER**

RANK	DISTRICT	TEACHER CANDIDATE	SCHOOL
1	La Trinidad	Elmerine S. Panagan	Balili Elementary School
2	Bokod	Joanna M. Pontino	Kawal Elementary School
3	Buguias	Mary Ann S. Pacio	Naytokyab Elementary School

**ELEMENTARY OVER- ALL STANDING PER EVENT**

RANK	MATH AND SCIENCE QUIZ	INVESTIGATORY PROJECT	SIM	BOARDGAMES
1	LA TRINIDAD	MANKAYAN	LA TRINIDAD	ATOK
2	MANKAYAN	BUGUIAS	BOKOD	TUBLAY
3	BPSA	LA TRINIDAD	BUGUIAS	LA TRINIDAD
4	TUBLAY	TUBLAY	MANKAYAN	MANKAYAN
5	KAPANGAN		BAKUN	KIBUNGAN

**SECONDARY****SCIENCE QUIZ RESULT - GRADE 7**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	MANKAYAN	ROUMAN AYR M. MONTAYA	LYZA JOY W. ARTIME	LEPANTO NHS
2	TUBLAY	WREN YSER PICART	ELIZABETH R. SILOG	TSHI - MAIN
3	BOKOD	CLIFFORD A. BALLOGAN	NORMA T. DATIC	BOKOD NHS

**SCIENCE QUIZ RESULT - GRADE 8**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	RICABELLA D. EUSEBIO	ROSE PECAY	CRSHS
2	KAPANGAN	LEANNE A. GOMEZ	SIEPREN O. MANGILI	KAPANGAN CENTRAL NHS
3	MANKAYAN	EMIR GIAN LORENZO R. LAZATIN	CHADWAYNE A. OY-YENG	LEPANTO NHS

**SCIENCE QUIZ RESULT - GRADE 9**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	ATOK	JOMAR C. TARASI	MYRNA M. SALIS	CAMP 30 NHS
2	MANKAYAN	ERELLE KATE D. TIO-AN	VIOLETA GINA TELIAKEN	MANKAYAN NHS
3	KAPANGAN	CLARKJUSTIN C. ATIYENG	SIEPREN O. MANGILI	KAPANGAN CENTRAL NHS

**SCIENCE QUIZ RESULT - GRADE 10**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	KIBUNGAN	ABEGAIL A. WAKIT	EMILYN C. CASLANGEN	KIBUNGAN NHS
2	TUBLAY	LYVYS B. COPERIO	NELIA DEPAYNOS	TSHI - MAIN
3	ITOGON 1	YSHA MEL N. MENDILLO	JOCELYN M. NERO	AMPMNHS



**ON THE SPOT SCIENCE COMPETITION - SHS**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	TUBLAY	HARRIET G. PEREZ CRYZYL B. MARTIN	JULIET DUMEPNAS	TSHI - MAIN
2	LA TRINIDAD	HAZEL ALIBA NIKKO CAPDOS	DENEVER DOKEY	CRSHS
3	TUBLAY	MARLON VICENTE JAMAICA GNATAS	JULIET DUMEPNAS	TSHI - MAIN

**MATH QUIZ RESULT - GRADE 7**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	BUGUIAS	APRIL ROSE B. BA-OY	HERJALIN G. BALISTO	BUGUIAS NHS
2	LA TRINIDAD	KATRYN ANGELA EUN A. RIDON	TRICIA AWAL	CRSHS
3	KAPANGAN	DELMAR PALITOGEN	JULIET MONTE	GBDAIS - MAIN

**MATH QUIZ RESULT - GRADE 8**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	BPSA	HEINRICH JETHRO C. FAMILAN	FAITH B. SACLA	HOPE CHRISTIAN ACADEMY
2	LA TRINIDAD	THANIEA JAYE K. FLORES	HEATHER BANAGUI	CRSHS
3	MANKAYAN	CRAIG LHANDER T. BENIKING	MARITES T. BENIKING	TABIO NHS

**MATH QUIZ RESULT - GRADE 9**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	MANKAYAN	SHARRY KAYE Y. GARCIA	DOROTEA B. AAYO	LEPANTO NHS
2	LA TRINIDAD	RAFAEL A. CAPDOS	TRICIA AWAL	CRSHS
3	KABAYAN	KIANA MAE FLORES	JULIE S. BUYAGAN	KAMORA NHS

**MATH QUIZ RESULT - GRADE 10**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	TUBA	NICK ZANDRICK WILLY	DANIEL T. SABELO	EJMNHS
2	LA TRINIDAD	ISHTAR SONGOT	HETAHER BANAGUI	CRSHS
3	ITOGON 1	BLESSILYN BANGONAN	CHRISTINE LARTONERAS	AMPMNHS

**MATH QUIZ RESULT - SHS**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	SAGE EVAN VILAGA	MARCHAD COILAN	CRSHS
2	MANKAYAN	IVON CLYDE DAGANOS	JARDSON ONIO	MANKAYAN NHS
3	BOKOD	RICHELLE MANUEL	JUNARIA DIO-AL	BOKOD NHS - MAIN

**ELECTRO SCI-DAMA RESULT – GRADE 7**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	TUBLAY	JEFFERSON PULAS	ELIZABETH SILOG	TSHI – MAIN
2	KAPANGAN	ZARALINE BANSIONG	AMOR P. PARISTA	KAPANGAN CENTRAL NHS
3	BOKOD	MELCHOR SALVADOR	CLYDE ABAD	DACLAN NHS

**SCI - NOTATION DAMA RESULT – GRADE 8**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	KAPANGAN	JIM RAYE E. PALAEZ	AMOR P. PARISTA	KAPANGAN CENTRAL NHS
2	BPSA	JHYVEZ A. CODIAMAT	JONATHAN AGAYAO	HOPE CHRISTIAN ACADEMY
3	LA TRINIDAD	ROHEEM S. CAMILO	CHRISPHER EDIONG	LA TRINIDAD NHS

**THI SCI -DAMA RESULT – GRADE 9**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	BUGUIAS	ARNEL TIBAO	MANUEL ANDRES	SINIPSIP NHS
2	MANKAYAN	SHEREIN JESI RINGOR	VIOLETA G. TELIAKEN	MANKAYAN NHS
3	KAPANGAN	RAYMUNDO II E. DIWAS	AMOR P. PARISTA	KAPANGAN CENTRAL NHS

**THERMO SCI -DAMA RESULT – GRADE 10**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	TUBLAY	NICOLE LYNN I. BANGAAN	NELIA DEPAYNOS	TSHI – MAIN
2	BPSA	HENJIE LEE K. WAWAY	BLÉN A. AGRAMOS	SAN JOSE SLT
3	LA TRINIDAD	EDDIE B. ANG-AYAN	CHRISPER D. EDIONG	LA TRINIDAD NHS

**INTEGER DAMATH RESULT – GRADE 7**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	HERMAN C. PAGEET	JONIE G. PEL-IS	LA TRINIDAD NHS
2	KAPANGAN	EROL P. CADLEY	LEONICO L. FILOG	KAPANGAN NHS
3	BPSA	MICHAEL RAYE A. LADERAS	ROJAN LEE D. LIGTINEN	SAN JOSE SLT

**FRACTION DAMATH RESULT – GRADE 8**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	REXSON G. DILINILA	CHRISPER EDIONG	LA TRINIDAD NHS
2	TUBA	ARNOLD D. AVELINO	JANICE S. DIONISIO	TALOY SUR NHS
3	KAPANGAN	JEFFERSON MAY-OS	MELBA CANOL	GBDAIS - MAIN

**RADICAL DAMATH RESULT – GRADE 9**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	REMBERT C. WAGSEY	CHRISPER EDIONG	LA TRINIDAD NHS
2	KAPANGAN	CLIJEN SAGAYO	LIZA LUMADAO	GBDAIS-MAIN
3	ATOK	JAKE B. QUIAOIT	FIDEL B. WAGLISON JR.	ATOK NHS

**POLYNOMIAL DAMATH RESULT – GRADE 10**

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	MANKAYAN	JERECO BAUTISTA	SARA S. DINO	MANKAYAN NHS
2	KABAYAN	EDEN KEATH BALISTO	JULIE S. BUYAGAN	KAMORA NHS
3	TUBA	JOHNSON PACLIWAN	JOSEPH BACANI	TUBA CENTRAL NHS

**MATHEMATICAL INVESTIGATION (RESEARCH – BASED)**  
INDIVIDUAL: CLUSTER 1

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	Right Triangular Revolution in the $n^{\text{th}}$ Stage	JESTER Y. CASTILLEOS	JUFELIA PADUYAO	BENGUET NHS
2	Areas of the x – star in the $n^{\text{th}}$ Stage	FRANZ ROBIN ONG	JUFELIA PADUYAO	BENGUET NHS

**MATHEMATICAL INVESTIGATION (RESEARCH – BASED)**

INDIVIDUAL: CLUSTER 2

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	Total length of all line segments	SAMANTHA FAITH P. AWAS	SHYMA T. MABLI	CRSHS
2	Length of the diagonal and the total area inscribed hexagram of the largest regular hexagon in the $n^{\text{th}}$ iteration of the metatrons cube 2D Variation	SHANIAH E. CALVIN	SHYMA T. MABLI	CRSHS

**MATHEMATICAL INVESTIGATION (RESEARCH – BASED)**

TEAM: CLUSTER 1

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH/ES	SCHOOL
1	Magic Letters V and N	SHERINE ARA CRYSTALLINE DATOC CATE ASHLEY MEDINA GERALDINE MORALES	JUFELIA PADUYAO	BENGUET NHS
2	Finding the area of a hexa-star in the $x^{\text{th}}$ stage	JAMES ALICNAS EARL DIAMOND AYYAB MARK ANDREE T. GUAKI	JUFELIA PADUYAO FRANNIE LAINE SION	BENGUET NHS
3	Finding the area of a pointed honeycomb to the $n^{\text{th}}$ stage	STACY KEITH LACTAOEN CLAIRE PEDRO KYLE MELISANDE PINAS	JUFELIA PADUYAO	BENGUET NHS
4	Finding the area of an octa-triangular flowerlike structure to the $n^{\text{th}}$ stage	JAPHET DAN DUCAYSO JENCY LICBASEN NICOLE ZANE MENDOZA	JUFELIA PADUYAO	BENGUET NHS
5	Finding the approximated Area of $N \times N$ Twisted Plane	MELVIN CHOCOWEN CLICHELE MAE LONG-A HAIDY M. TITIWA	JUFELIA PADUYAO ROBINA AMOS	BENGUET NHS

**MATHEMATICAL INVESTIGATION (RESEARCH – BASED)**

TEAM: CLUSTER 2

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH/ES	SCHOOL
1	Finding the length of the edge of a tetrahedron and the total volume of all octahedron in the $n^{\text{th}}$ Sierpinski Tetrahedron	RUSSEL A. OMOLIDA ISHTAR KARYLLE D. SONGOT	SHYMA MAY T. MABILI	CRSHS
2	Total volume of spherical seed and	KENNETH T.	SHYMA MAY T.	CRSHS

	spherical vesica piscis in the sphere of life	SMITH ZHYREL SHAN G. BANGNAN	MABILI	
3	The area of the Sierpinski pentagon in the $n^{\text{th}}$ iteration	KENDRICK S. DIATEN RUSSEL CRAIG M. YAPES	SHYMA MAY T. MABILI	CRSHS
4	Ratio of the area of the hexagon to the circumference of the circumscribed circle and the area of the inscribed Hexagram in the $n^{\text{th}}$ iteration	ALLYSA F. CANAM CLARISSE O. CARBONEL	SHYMA MAY T. MABILI	CRSHS
5	Total length of all line segments and total area of the regular $n$ -gon to the smallest inscribed $n$ -gon formed by connecting the midpoints of previous regular $n$ -gon to the $i^{\text{th}}$ iteration	ALEXTER C. DOMOCMAT MARINELLE AINSLEY J. ROSIMO	SHYMA MAY T. MABILI	CRSHS

**MATHEMATICAL INVESTIGATION (PROBLEM – BASED)**  
INDIVIDUAL

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	EZRA AREX P. BALONG-ANGEY	MARCHAD COILAN	CRSHS
2	LA TRINIDAD	ALLEN PAL-IWEN	MARCHAD COILAN	CRSHS
3	TUBLAY	SHARLYN M. TALAWA	AGUSTINA B. PADINAY	TSHI-MAIN

**MATHEMATICAL INVESTIGATION (PROBLEM – BASED)**  
TEAM

RANK	DISTRICT	NAME OF LEARNER	COACH	SCHOOL
1	LA TRINIDAD	AKIEN, LENIN OH, HYEON TAEK	MARCHAD COILAN	CRSHS
2	LA TRINIDAD	ALAGON, MAE BLESS PARIAN, ASTHER	MARCHAD COILAN	CRSHS
3	LA TRINIDAD	CANABE, KAREN CUYAN, TRISHA	MARCHAD COILAN	CRSHS
4	LA TRINIDAD	JIYUN A. TIBOLDEC JOHN MILLER C. MANZANO	LEA OLATIC	BENHUET NHS
5	MANKAYAN	ALONA B. BAGIW AUDRIE NICOLE G. VENTURA	RUBLEYN PALTICAN	LEPANTO NHS

**INVENTION**  
INDIVIDUAL

RANK	TITLE	NAME OF LEARNER	COACH	SCHOOL
1	INTERNET OF THINGS (IOT) BASED LIQUIFIED PETROLEUM GAS	ARENS IAOVAN B. LICOBEN	DENVER DOKEY	CRSHS

	(LPG) LEAKAGE DETECTOR			
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**INVENTION**  
TEAM

RANK	TITLE	NAME OF LEARNER	COACH	SCHOOL
1	PORTABLE SOLAR ENERGY – POWERED FILTER: A WAY TO DISINFECT AND PURIFY WATER	SANDRO G. APALLA MARK BONN T. BOGNALEN IVERSON S. SELBE	MYRICK Y. AO-ASEN	MANKAYAN NHS
2	SCRAP – MADE EXHAUST FILTER OUT OF EG SHELLS OR DIESEL – POWERED VEHICLES	SAMUEL F. OBLAY JOEN KENNETH B. SILVINO VERONICA T. VELASCO	MYRICK Y. AO-ASEN	MANKAYAN NHS
3	AUTOMATED IRRIGATION SYSTEM	JOEN BANGCADO JERNALIZA BATARA YRONNE PAUL BALIGA	AGUSTINA B. PADINAY	TSHI – MAIN
4	ELECTRIC GENERATOR FROM HOUSEHOLD WASTE HEAT	DESNY JHILL P. DICAM KAHLIL DUNE H. LICCUD	DENVER P. DOKEY	CRSHS

**ROBOTICS**  
INDIVIDUAL

RANK	TITLE	NAME OF LEARNER	COACH	SCHOOL
1	A MINIATURE ARDUINO SEARCH AND RESCUE BOT	RUVE K. MOPON	DENVER DOKEY	CRSHS

**ROBOTICS**  
TEAM

RANK	TITLE	NAME OF LEARNER	COACH	SCHOOL
1	IGNIS TERRAEMOTUS FUMUS (ITF)	SHAILA PILO LEJUNE RAFAEL	EUGENE ESPIRITU IMELDA ESPIRITU	BENGUET NHS
2	BEY MAX'S PARTNER: A PROTOTYPE TRANSPORTER FOR PATIENTS	HENZLEIGH DAVE O. BETE SEAN GABERIEL O. RAPADA	DENVER DOKEY	CRSHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## SCIENCE 7

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	PURE SUBSTANCES	MAY CLAIRE C. POL-OCAN	KABAYAN	
2	TINY DOT	KHELYN M. LINO	BUGUIAS	LOO NHS
3	LEVELS OF ORGANIZATION	ANNA LIZA M. CALABIAS	ITOGON	

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## SCIENCE 8

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	FIT TO WORK	KHELYN M. LINO	BUGUIAS	LOO NHS
2	MENDELIAN GENETICS	SHARON Q. DOMERIS	TUBLAY	TSHI - MAIN
3	WORKING TO WORK	ELIO DOMINGLOS	BAKUN	

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## SCIENCE 9

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	THE BLUE PRINT OF LIFE	MARCELITA B. SORIANO	BUGUIAS	LOO NHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## SCIENCE 10

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	THE JOURNEY OF DNA AMINO ACID	NELIA L. DEPAYNOS	TUBLAY	TSHI MAIN
2	RAY DIAGRAMMING IN CURVED MIRRORS	JONATHAN S. BUSILAC	BAKUN	BAKUN NHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## MATH 7

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	SUBTRACTION OF INTEGERS	BREDALYN C. TONGALOG	BUGUIAS	LOO NHS
2	ADDING INTEGERS	ANDENSON C. GULLINGOY	BUGUIAS	LOO NHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## MATH 8

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	FACTORING QUADRATIC	EMILIO E.	ITOGON	FMNHS -

	TRINOMIALS	CALABIAS		Bantic
2	ADDITION OF RATIONAL ALGEBRAIC EXPRESSION	BREDALYN C. TONGALOG	BUGUIAS	LOO NHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## MATH 9

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	PROPORTION	JOAN G. PEDRO	KABAYAN	
2	FACTORING	JEANIELLEN B. LADUAN	BUGUIAS	BANGAO NHS

**STRATEGIC INTERVENTION MATERIAL (SIM)**

## MATH 10

RANK	TITLE	NAME OF TEACHER	DISTRICT	SCHOOL
1	HARMONIC SEQUENCE	JEANIELLEN B. LADUAN	BUGUIAS	BANGAO NHS
2	HARMONIC SEQUENCE	MENANDRO P. MONTERO	BUGUIAS	LOO NHS
3	POLYNOMIALS	YOLANDA L. BASTIAN	TUBLAY	TSHI

**SCIENCE INVESTIGATORY PROJECT**

## LIFE INDIVIDUAL

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	ECO-FRIENDLY GROWTH BOOSTER FOR BRASSICA RAPA FROM HUMAN HAIR AND WASTE BENGUET COFFEE GROUND	RHYZABELLE B. BRIONES	BENIFREDA M. FERNANDEZ	MANKAYAN NHS
2	ECO-FRIENDLY MOSQUITO ERADICATOR FROM "TEBA" BARK	JOHN GRABRIEL A. BELARO	BENIFREDA M. FERNANDEZ	MANKAYAN NHS
3	APOG AS AN ALTERNATIVE SOIL FERTILIZER	JHORDAN C. KIWAS	JOMAR B. PALILENG	LOO NHS
4	BAGOONG AS AN ALTERNATIVE FERTILIZER FOR CELERY PLANT	GWYNETH NICOLE L. PECAY	JOMAR B. PALILENG	LOO NHS
5	RESPONSE OF SELECTED HIGHLAND VEGETABLE SEEDS ON MICROWAVE	EURICHA PEARL S. ABEYA	CHAD WAYNE A. OY-YENG	LEPANTO NHS

**SCIENCE INVESTIGATORY PROJECT**

## LIFE TEAM

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	ANTIANGIOGENIC POTENTIAL OF	NELLIE JEN K.	JARDSON S.	MANKAYAN



	GABI-GABI (CALADIUM BICOLOR) IN VIVO THROUGH CHICK CHLORIOALLANTOIC (CAM) ASSAY	CAYTAP DIAMOND DIANNE P. DAGANOS SHEKINAH KAYE A. TUGAD	ONIO	NHS
2	RICE WASH: A POTENTIAL ROOTING ENHANCER FOR ARCTIC-QUEEN CHRYSANTHEMUM (DENDRANTHEMA GRANDIFLORA)	KIM B. LAMSIS JUNER A. LOQUIO ARCHER C. SILOY	LOIDA A. BOSLAY	TSHI – MAIN
3	HYDROGELS FROM USED DIAPERS AS WATER-SAVING POLYMER AND FERTILIZER IN BRASSICA RAPP (PECHAY) CULTIVATION	KRISTINE B. OCTAVIANO KRISTLE JOY W. GAYUDAN SHEANE T. FAGYAN	JARDSON S. ONIO	MANKAYAN NHS
4	HELIANTHUS ANNUUS (SUNFLOWER PLANT) AS POTATO SPROUT GROWER	KREXELLE KATE DANGPA KHEARDE SIACO	JOMAR B. PALILENG	LOO NHS
5	EFFECT OF FERMENTED BANANA PSEUDO STEM ON THE GROWTH AND YIELDS OF RAPHANUS SATIVUS	REX JANSEL M. GASPILI RODALINE C. LUMABAS JELIZA T. VALDEZ	SIMON L. LANGBIS	BUGUIAS NHS

**SCIENCE INVESTIGATORY PROJECT**  
PHYSICAL INDIVIDUAL

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	FUMUS VELLERA: A POTENTIAL SMOKE FILTER FOR CARS	CHRISTIAN PAUL A. AGO	LOIDA A. BOSLAY JERRY ESNARA	TSHI – MAIN
2	DO-IT-YOURSELF FALSGLIGHT SOLAR POWER BANK	SHARRY KAYE Y. GARCIA	CHAD WAYNE A. OY-YENG	LEPANTO NHS
3	COMPARATIVE EVALUATION OF THE SOLVENT TREATMENT FROM Z.OFFICINALE FOR EXPANDED POLYSTERENE (EPS) DECOMPOSITION	MAILYNE KIM C. BUMUGHAWI	MYRICK Y. AO- ASEN	MANKAYAN NHS
4	MIN-MACHINE PLASTIC WASTE REDUCER	MC KENNY G. OLONG-NIÑO	CHERYL J. GARCIA	BENGUET NHS – MAIN
5	ORGANIC PHOTOVOLTAIC CELL USING CHROMOLAENA ODORATA CHLOROPHYLL WITH ADDITION OF MAILLARD REACTION PRODUCTS	EMILY E. SOTELO	CHAD WAYNE A. OY-YENG	LEPANTO NHS

**SCIENCE INVESTIGATORY PROJECT**  
**PHYSICAL TEAM**

RANK	TITLE OF STUDY	NAME OF LEARNER	COACH	SCHOOL
1	COFFEE GROUNDS AND BAMBOO CHARCOAL AS ALTERNATIVE ACIDIC WATER NEUTRALIZER AND HEAVY METAL FILTER	CRELYN ANNE T. CONCEPCION JOANNE JOY P. AMBASING JAMES ALBERT A. DACYON	WANAD LYN A. PLADIO	LEPANTO NHS
2	AUTOMATED GREENHOUSE GARDENING MACHINE: ITS ABILITY TO DETECT TEMPERATURE, WATER LEVEL AND SOIL MOISTURE	MIKESON B. DANGPA WENZER B. CODMAN DOMINIJOYZ A. CULOP	JOMAR B. PALILENG	LOO NHS
3	A HOUSEHOLD-BASED HYDRO ELECTRIC GENERATOR	MARZAN QUINTOS NOBETH DEGSI NEVELYN MAGING	CHERYL J. GARCIA	BENGUET NHS – MAIN
4	PORTABLE ELECTRIC GENERATOR (P.E.G.) – DC	JAN LYMAR M. BECTE RITZ A. OYDOT KAIZER T. SAYYOC	LOIDA A. BOSLAY	TSHI – MAIN
5	MANUAL ELECTRIC GENERATOR	LLOYD A. MANOCAY APOL GRACE D. DULNUAN EDISON CHRIS S. PEREZ	CHERYL J. GARCIA	BENGUET NHS – MAIN

**OUTSTANDING SCIENCE TEACHER**

RANK	NAME OF TEACHER	DISTRICT	SCHOOL	SCHOOL HEAD
1	DENVER DOKEY	LA TRINIDAD	CRSHS	MERLY CONCHITA DE GUZMAN
2	BENIFREDA M. FERNANDEZ	MANKAYAN	MANKAYAN NHS	DANIEL PEREDO
3	ELIZABETH R. SILOG	TUBLAY	TSHI – MAIN	HERMINIA OSTING
4	CREMELDA MARIE M. BURGOS	BUGUIAS	SINPISIP NHS – NATUBLENG	DIVINA CALUBANDI

**OUTSTANDING MATH TEACHER**

RANK	NAME OF TEACHER	DISTRICT	SCHOOL	SCHOOL HEAD
1	JARDSON S. ONIO	MANKAYAN	MANKAYAN NHS	DANIEL PEREDO
2	HEATHER G. BANAGUI	LA TRINIDAD	CRSHS	MERLYN

				CONCHITA DE GUZMAN
3	AGUSTINA PADINAY	TUBLAY	TSHI - MAIN	HERMINIA M. OSTING

**ACTION RESEARCH – SCIENCE**  
ELEMENTARY / SECONDARY

RANK	NAME OF TEACHER	DISTRICT	SCHOOL	SCHOOL HEAD
1	MARY JANE B. BAYENG	MANKAYAN		
2	LOIDA A. BOSLAY	TUBLAY	TSHI – MAIN	HERMINIA OSTING
3	AUREA A. VALDEZ			
4	JUDITH G. DIASSAN	MANKAYAN	LEPANTO NHS	DR. SHARON ANGUPA

**ACTION RESEARCH – MATHEMATICS**  
ELEMENTARY / SECONDARY

RANK	NAME OF TEACHER	DISTRICT	SCHOOL	SCHOOL HEAD
1	DECENIA T. CABACAB	MANKAYAN	LEPANTO NHS	DR. SHARON ANGUPA
2	AGUSTINA B. PADINAY	TUBLAY	TSHI – MAIN	HERMINIA OSTING
3	ELMERINE PANAGAN	LA TRINIDAD		
4	MELENIA CABATAN			
5	MAR ANN PACIO	BUGUIAS	NAYTOKYAB ES	MARY ANN PACIO