



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

SDDM-26-73

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8 October 2026

DIVISION MEMORANDUM

No. 695-2026

**RESULTS OF 2026 DIVISION SCIENCE, TECHNOLOGY, ENGINEERING
& MATHEMATICS (STEM) FESTIVAL**

To: All Chief Education Supervisors
Education Program Supervisors
Public Schools District Supervisors
Public and Private Secondary School Heads
Public and Private Elementary School Heads
Teachers, SDO Personnel
Others Concerned

1. This is to announce the results of the 2026 Division Science, Technology, Engineering and Mathematics Festival held on October 3, 2026 at Baguio City High School with the theme: "Leveraging Scientific Innovation for a sustainable and Progressive Philippines".
2. The Top1 Winners of Tuklas, STEM Innovation Expo, and RISE shall represent the Division in the 2026 Regional Science and Technology Fair.
3. Teachers and personnel who served during the event will be granted Service Credits or Compensatory Overtime Credits (COC) in line with DepEd guidelines.
4. Enclosed are the Results in all contested events for information and guidance.
5. Immediate and wide dissemination of this Memorandum is desired.

SORAYA T. PACULO PhD, CESO V
Schools Division Superintendent *SP*

Enclosure 1. Results of the STEM Festival



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A. MATHEMATICAL INVESTIGATION

a. SENIOR HIGH SCHOOL – RESEARCH BASED

INDIVIDUAL

RANK	NAME OF STUDENT	NAME OF COACH	SCHOOL	SCHOOL HEAD
FIRST	Leiandro Jonathan Camacho	Kathy M. Papcio	BCNSHS	Lucia T. Casim
SECOND	Verneez Christine Marie V. Tayaban	Kathy M. Papcio	BCNSHS	Lucia T. Casim
THIRD	Rian Carlou S. Morgado	Laila B. Kiw-isen	BCHS	Whitney A. Dayawen

TEAM

RANK	NAME OF STUDENT	NAME OF COACH	SCHOOL	SCHOOL HEAD
FIRST	1.Avril B. Manglapus 2.Cecret Sophia E. Dumaguing 3.Jane I. Solimen	Eljim V. Ramos	PCNHS	Danilo P. Gayao
SECOND	1.Timothy Job B. Cuilan 2.Mark Daryl C. Montanio 3.Prince Zachary J. Salay	Laila B. Kiw-isen	BCHS	Whitney A. Dawayen
THIRD	1.Edison R. Abubo Jr. 2.Nathan Christopher Magallanes 3.Katrina Angela c. Bao-idang	Kathy Papcio	BCNSHS	Lucia Casim

b. JUNIOR HIGH SCHOOL – PROBLEM BASED

INDIVIDUAL

RANK	NAME OF STUDENT	NAME OF COACH	SCHOOL	SCHOOL HEAD
FIRST	Aira Denise C. Oriondo	Michael F. Bargas	BCHS	Whitney A. Dawayen
SECOND	Braylor Keith A. Agpad	Michael F. Bargas	BCHS	Whitney A. Dawayen
THIRD	Emmanuel U. Maneclang	Michael F. Bargas	BCHS	Whitney A. Dawayen

TEAM



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RANK	NAME OF STUDENT	NAME OF COACH	SCHOOL	SCHOOL HEAD
FIRST	1.Cyril C. Limmayog Jr. 2.Aljonar R. Boado 3.Wallace Tyrece M. Velasquez	Michael F. Bargas	BCHS	Whitney A. Dawayen
SECOND	1.Ashmie V. Cadisel 2.Daniel Dean M. Eusebio 3.Romeo III T. Buslayan	Michael F. Bargas	BCHS	Whitney A. Dawayen
THIRD	1.Jairuz angelo b. Caplas 2.Alexander James Rancadan 3.Princes Rhea D. Calado	Michael F. Bargas	BCHS	Whitney A. Dawayen



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B. TUKLAS

Event	Title of Project	Learner's Name	Coach Name	Rank/Award	District	School	School head
Tuklas-Life Science- Individual	Sustainable Approach to Urban Food Production: Mustasa in Deep Water Culture Using Organic Household Waste Extracts	Shandrea Loise R. Contaoi	Everly K. Ulban	First Place	7	BCNSHS	Lucia Casim
	Evaluating the effects of different indole butyric Acid(IBA) concentrations on Root initiation and development of in-vitro grown sweet charlie strawberry(Fragaria x ananassa) plantlets	Daricel Grace L. Catanes	Jerry L. Manogan	Second Place	8	GVNHS	Edward C. Vicente
Tuklas-Physical Science-Individual	A Self-adjusting, dual-Mode Hyro Wheel for Variable Creek Conditions Developed as Part of the S.W.I.M. Hydroponics Initiative	Zane J. Samoranos	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
	PiezoMat: A Kinetic Piezoelectric Floor Mat for Electricity Generation	Rjon Lee Lawrence P. Romero	Marina E. Apayo	Second Place		Mil-an NHS	
	Biodegradable Bags Made from Onion(Allium cepa) Skin as an Alternative to Traditional paper bags	Marah Erfil A. Sumakey	Lissa B. Roxas	Third Place	7	BCNHS	Lucia Casim
Tuklas-Robotics and Intelligent Machines- Individual	TRAKTERRA:Technology for Real -Time Agricultural checking and Knowledge of soil Through Testing, Evaluation, Recommendation, and Result Recorder of the analyzed Data on Nitrogen(N), Phosphorous(P), and Potassium(K)	Erjohn Zane T. Pagador	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
	AMURAO: Automated Monitoring Using Real-Time Alerts for Overcrowding Management	Robert karl R. Amurao	Jerry L. Manogan	Second Place	8	GVNHS	Edward C. Vicente



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Tuklas-Mathematics and Computational Science- Individual	A Mathematical Approach to quantifying Cumulative Exposure and Oral Cancer Risk in Oreca Nut Chewers	Charlene M. Balway	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
Tuklas-STEM Innovation- Individual	A.N.D.A.P.: Active Net Defense Against Plant Frost	John Wayne C. Morqued	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
	Cassava(Manihot Esculenta)Starch as a Bioplastic Bubble Wrap	Jeo Clifford B. Tabios	Jerry L. Manogan	Second Place	8	GVNHS	Edward C. Vicente
	GrubSci: A mobile-based Application Blueprint for Efficient Food Ordering in Baguio City National Scienec High School	Trisha Denise A. Maganes	Ruth Dale Pamintuan	Third Place	7	BCNSHS	Lucia Casim
Tuklas-Life Science- Team	Phytochemical and UV-Vis Spectrophotometry Analyssis of Tangan(Erythrina subumbrans) Leaf Extract	1. Irish Nicole M. Akiangan 2. Ayesha Faith D. Bangsilan 3. Precious M. Kani	Johnny B. Buasen	First Place	5	Sto. Tomas NHS	Jason W. Pascaden
	Project B.A.S.I.L: Basil(Ocimum basilicum) used as an alternative natural fungicide to safely eliminate penicillium in coffee beans and limit penicillium by-product, ochratoxin A	1. Ivory Jane S. Fey-agan 2. Rina Jean S. Manzon 3. Jeo Clifford B. Tabios	Jerry L. Manogan	Second Place	8	GVNHS	Edgar Vicente
Tuklas-Physical Science-Team	Self-sustaining, water powered integrated modular hydroponics(SWIM Hydroponics)	1. Jane J. Samoranos 2. Allen Jezron T. Silog 3. Elias Erick C. Rimando	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente



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	Carbonize coconut fiber(Cocos nucifera) and activated bamboo charcoal as a vehicle tailpipe filter	1.Samantha G. Montecino 2. Divine Grace Dulay	Lissa B. Roxas	Second Place	7	BCNSHS	Lucia Casim
	Exploring the Potential of Taro Leaves and Stems as Renewable Charcoal Briquette	1. Carwyn Miguel B. Agbuya 2. Rhye Lady Charity M. Ambanloc 3. Mary Kimberly L. Laguisma	Thea P. Suaco	Third Place		UBSHS	Thea P. Suaco
Tuklas-Robotics and Intelligent Machines- Team	MOMMA: A Mobile Oral Malignancy Monitoring Assistant in screening potentially malignant oral lesions among Areca Nut Chewers	1. Jessica S. Dawey 2. Floyd Collin E. Pasion	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
	WEB'O'LERT: Web-based alert system as a water level sensor warning indicator	1. Vaira Madex P. Aromin 2. Caile S. Coroneza 3. Khen Sky M. Razo	Marina E. Apayo	Second Place	3	Mil-an NHS	Joeferino M. Ginumtad
	FARMING: Friendly Automatic Robot that Measures and Inputs Nutrient for Plant Growth	1. Chrisny Gayle C. Badilla 2. Khalija Czarelle A. Corpuz 3. Samantha	Lissa B. Roxas	Third Place	7	BCNSHS	Lucia Casim



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		Astrud L. Del Rosario					
Tuklas-Mathematics and Computational Science- Team	BaguioFlow: Navigating the Shortest and Updated Routes to Park Around CBD	1. Althea Blaire A. Cariaga 2. Zabdiel Arkhin S. Delirio 3. Mark Joseph B. Labasan	Jessica A. Yeban	First Place	1	Rizal NHS	Marcial L. Lami-ing
	Baguio Eco Track: a Computational Optimization Model for Efficient Garbage Collection Routes in Baguio City	1. Jasper B. Sawadi 2. Chara Sophia Silverio	Jerry L. Manogan	Second Place	8	GVNHS	Edward C. Vicente
Tuklas-STEM Innovation- Team	P.R.E.S.A.S.(Potential of Ripe Strawberry(Fragaria x anaanassa) Extract as a Dual-Phase Acid-Base Substance Indicator	1. Ayesha Marina C. Binwag 2. Esther Ruth P. Lubante	Jerry L. Manogan	First Place	8	GVNHS	Edward C. Vicente
	BAM_COT: Exploring the Potential of Bamboo-Cotton Materials Through Comparative Absorption with Commercial Sanitary Pads	1. Micaella T. De Castro 2. James Y. Mendaros	Jerry L. Manogan	Second Place	8	GVNHS	Edward C. Vicente
	A.E.G.I.S- S.H.I.E.L.D: Advanced Emergency GPS and GSM-enabled IoT-based Safety helmet with Integrated Enhanced Liquor Detector	1. Nathaniel C. Niocena 2. Jellian Ace T. Villamor	Jerry L. Manogan	Third Place	8	GVNHS	Edward C. Vicente



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C. RISE

Event	Title of Project	Learner's Name	Coach Name	Rank	District	School	School Head
RISE-ELEM-Individual	Development and Accepatability of Etag Chocolate	Autumn Yuriel D. Bellang	Analiza P. Abina	First Place	5	AIS	Lilibeth Balutoc
RISE-JHS-Individual	RumexDerm: An Herbal Cream Formulation Using <i>Rumex crispus</i> Leaf Ethanolic Extract-Phytochemical Profiling and Antibacterial Evaluation	Pryns Silver P. Amiten	Johnny P. Buasen	First Place	5	STNHS	Jason W. Pascaden
	Development and Acceptability of Batuan (Garcinia binucao) Fruit Powder as an Alternative to Tamarind-Based Soup Mix	Elisha Rose G. Ballesteros	Maricar Changsoy	Second Place	8	GVNHS	Edward Vicente
				Third Place			
RISE-SHS-Individual	Ang 2 in 1 Kape't Tinapay: The Shelf Life and Nutritional Value of Barako Cookie Made from Jackfruit Seed and Sunflower Seed Flour	Khurstein Laire L. Gallotan	Rufina D. Cadsi	First Place	7	BCNSHS	Lucia T. Casim
	CaCaSPE VEGGIE-Powder	Bhine Ancel L. Laureano	Jerry Manogan	Second Place	8	GVNHS	Edward Vicente
	Market Feasibilty of Dragon Fruit Tea	Avril B. Manglapos	Daryl C. Magalgalit	Third Place	6	PCNHS	Danilo Gayao
RISE-ELEM-Team	Banana Paper: Reviving Traditional Paper-Making and Innovating with Banana Trunks	1. Queenie Velasco 2. Rheyne Gabol 3.	Jojo S. Ambros	First Place	2	Happy Hollow ES	Mylene S. Esteban



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RISE-JHS-Team	Cordillera Coffee Toffee: Innovation of Coffee Toffee Using Kalinga Coffee	1. Calixto, April Joy D. 2. Che-la, Uricka Angel I. 3. Cogaed, Jian G.	Alita C. Bautista	First Place	7	Irisan NHS	Grace M. Domingo
	EcoPen Holder: A Kombucha - Derived Bioleather from Goosegrass (Eleusine indica) tea as an Eco - Friendly Writing - Tool Organizer	1. Andhrie Clayne C. Lapindo 2. Yafah Kai Yanichel P. Piok 3. Shamcey R. Lumiib	Johnny P. Buasen	Second Place	5	STNHS	Jason W. Pascaden
	Development of a Biodegradable Cup Using Barako Coffee Grounds as an Alternative to Single Use Plastic Cups	1. Keziah Grace Tibangay 2. Chrislie Joyce Bumakil 3. Bea Patrice Tamlayan	Maricar F. Changsoy	Third Place	8	GVNHS	Edward Vicente
RISE-SHS-Team	Dehydrated Nilaga on the Go	1. Heaven Grace Pucayen 2. Wraiven Claire Morcoso 3. Jasmine Chrycha San Andres	Daryl Magalgalit	First Place	6	PCNHS	Danilo Gayao
	Development and Acceptability of Kining Pastil: An Innovative Fusion of Cordilleran Kining and Traditional Maguindanaoan Pastil	1. Princess Jayron De Claro 2. Rhedelyn Kate Ladderan 3. Jhon Banjo Dulnuan	Grace L. Santos	Second Place	2	Fort Del Pilar NHS	Salome C. Fangkingan
	A.L.I.Y.A.H. (Athletes and Individual's Leverage through an Innovative Yet Appetizing Healthy Etag Crackers: Development of a High Protein Etag Cracker to Support Nutritional Intake During Weight Management)	1. Rouel N. Morareng 2. Winiel S. Pokais	Jerry L. Manogan	Third Place	8	GVNHS	Edward Vicente



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D.CREATIVE TECHNOLOGY

Event	Learner's Name	Coach Name	Rank/ Award	District	School	School head
Creative Technology-Grade 4: Robot Sequential Task Challenge	1. Avian Gabriel Binegas 2.Xolan Sine R. Bayang 3.Stephen Joshua B. Cornel	MATTHEW L. BAYANG	1st	4	Mabini Elementary School	Wilma S. Biteng
	1.Beatrix D. De Benito 2.Yunara P. Umli 3.Amber Lavinia J. Olsim	MATTHEW L. BAYANG	2nd	4	Mabini Elementary School	Wilma S. Biteng
	1.Ethan Lucas G. Ramos 2.Franz Gerald M. Degawan 3.Jeon Jazzer P. Santiago	Donalyn C. Castro	3rd	3	Loakan Elementary School	Valeriano B. Accad
Creative Technology-Grade 5: Robot Parallel Parking Challenge	1.Max Vincent V. Layco 2.Bethsaida P. Medina 3.Eulali Chaen B. Mercado	Shali Mae A. Gama	1st	6	Baguio Central School	Jackson T. Cayaos
	1.Zymhel Dwaine D. Sanchez 2.Steven Aldrich M. Carganilla 3.Blake Gabriel A. Boleyley	Janry L. Egsaen	2nd	8	Lucban Integrated School	Felto P. Agpawa
	1.Eivanne Drake O Lopez 2.Gabby B. Landingin	Janry L. Egsaen	3rd	8	Lucban Integrated School	Felto P. Agpawa
Creative Technology-Grade 6: Robotic Ultrasonic Navigation Challenge	1.Shawn Marcus V. Manuel 2.Maverick C. Delenela 3.Zacharias T. Ducyogen	Janry L. Egsaen	1st	8	Lucban Integrated School	Felto P. Agpawa
	1.Mariane Dane Batalla 2.Jermaine Anne De Vera 3.Ainia Sarip	Joyce L. Lunag	2nd	6	Baguio Central School	Jackson T. Cayaos



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	1. Matthew Ethan Sotero 2. Liam Niejel Villasencio 3. Marsen Jr. Rimando	Joyce L. Lunag	3rd	6	Baguio Central School	Jackson T. Cayaos
Creative Technology- Arduino Showdown: The Ultimate Maker Challenge	1. Big-asan, Atasha Nichyla B. 2. Sajonas, Jexx Matthew T. 3. Suguitan, Rhian Diane P.	Rubie D. Bascos	1st	3	Mil-an National High School	Joeferino M. Guinumtad
	1. Biado, Dwayne A. 2. Pisando, Matt Jonathan C. 3. Constantino, John Henry G.	Jared Lyle Q. Ang	2nd	7	Baguio City National Science High School	Lucia T. Casim
	1. Cyrus Billy C Liano 2. Reynan L. Quequegan 3. Artzjen G. Hipolito	Pherrie James T. Bacolod	3rd	1	Rizal National High School	Marcial L. Laming



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Event	Title of Project	Learner's Name	Coach Name	Rank/Award	District	School	School head
Arduino Innovation Challenge	FollowMe: An Eco-Powered Assistive Cane with Haptic Feedback for the Visually Impaired	Ettienne Ingrid Water G. Lipawen Kayelan C. Daytec Justine M. Amante	Mildred Pa-ac	1st	7	BCNSHS	Lucia Casim
	Envio-Cast: Micro-Aero Intelligent Indoor Environmental Parameter Assistant Device	Jesieboy B. Coloma Dan Asher A. David Shekynna Mitch G. Dalagan	Dennis M. Ariola	2nd	7	BCNSHS	Lucia Casim
	Conservo: Performance Evaluation of an Automated Lighting System	Giovani B. Magboo Charlene M. Bantiyan Leanna M. Calosa	Mary Joyce C. Pagar	3rd	7	BCNSHS	Lucia Casim
	Smart Voting Bins for Waste Segregation of Plastic Cups, Bottles and Paper Cups	Jacob Angelo Estoesta Chrisny Gayle C. Badilla Alliyah Dana B. Ballesteros	Jared Lyle Q. Ang	Best Concept	7	BCNSHS	Lucia Casim
	FollowMe: An Eco-Powered Assistive Cane with Haptic Feedback for the Visually Impaired	Ettienne Ingrid Water G. Lipawen Kayelan C. Daytec Justine M. Amante	Mildred Pa-ac	Best Presentation	7	BCNSHS	Lucia Casim



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E. INQUIRACE

Event	Learner's Name	Coach Name	Rank/ Award	District	School	School Head
INQUIRACE-A	1. Bryce Aiden V. Ramos 2. Cherryzhei Jazreel T. Macusi	Ms. Jermaine S. Palingping	1st	3	SPED Center	Rommel Manzano
	1. Ezekiel N. Dama-on 2. Zyon Brixx M. Arquero	Ms. Elvira M. Acab Ms. Lorelie C. Giacao	2nd	4	Apolinario Mabini ES	Wilma Biteng
	1. Kurtis M. Bondad 2. Liam Khyle B. Lacwasan	Ms. Judith B. Roque	3rd	10	Bakakeng ES	Jimmy Garcia
INQUIRACE-B	1. Jermaine Isabelle A. Rosario 2. Lymuel Kurth C. De Guzman	Ms. Norma L. Macalingay	1st	6	BCS	Jackson Cayaos
	1. Alexander Collado 2. Kailash Drae Colpita	Ms. Caroline F. Traquena	2nd	3	JPLES	Jerry Waalsiyen
	1. Chandice Buansi 2. Shaynna Ambher B. Patricio	Ms. Rowena N. Caasi	3rd	4	DAES	Estrella Bullay
INQUIRACE-C	1. Reginald T. Lizondra II 2. myiesha Evette G. Aniciete	Ms. Meagan Rhea Dematera Ms. Melanie Abaggue	1st	7	BCNSHS	Lucia T. Casim
	1. Rhianne B. Pinas 2. Princess Jazz B. Lopez	Ms. Maricel Alcedo Ms. Marlyn M. Amistad	2nd	3	BCHS	Whitney A. Dawayen
	1. David Grant C. Kikim 2. Reyjen Mae R. Ogoc	Ms. Lolita Kag-areng Ms. Noemi Magcanta	3rd	2	Fort del Pilar NHS	Salome C. Fangkingan



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INQUIRACE-D	1. Nathaniel John T. Caluza 2. Lance Ivoe E. Taborda	Ms. Beverly Bagto	1st	8	GVNHS	Edward C. Vicente
	1. Julianna Atheena Villa 2. Dominique A. Santos	Mr. Michael John P. Deatras	2nd	9	UBSHS	Thea P. Suaco
	1. Kenji Luken C. Rimando 2. Rhiane Flor G. Bulatao	Ms. Jenifer B. Cauilan	3rd	6	PCNHS	Danilo P. Gayao



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Arduino Innovation Challenge	FollowMe: An Eco-Powered Assistive Cane with Haptic Feedback for the Visually Impaired	Ettienne Ingrid Water G. Lipawen Kayelan C. Daytec Justine M. Amante	Odicar Joice F. chavez	1st	7	BCNSHS	Lucia Casim
	Envio-Cast: Micro-Aero Intelligent Indoor Environmental Parameter Assistant Device	Jesieboy B. Coloma Dan Asher A. David Shekynna Mitch G. Dalagan	Dennis M. Ariola	2nd	7	BCNSHS	Lucia Casim
	Conservo: Performance Evaluation of an Automated Lighting System	Giovani B. Magboo Charlene M. Bantiyan Leanna M. Calosa	Mary Joyce C. Pagar	3rd	7	BCNSHS	Lucia Casim
	Smart Voting Bins for Waste Segregation of Plastic Cups, Bottles and Paper Cups	Jacob Angelo Estoesta Chrisny Gayle C. Badilla Alliyah Dana B. Ballesteros	Jared Lyle Q. Ang	Best Concept	7	BCNSHS	Lucia Casim
	FollowMe: An Eco-Powered Assistive Cane with Haptic Feedback for the Visually Impaired	Ettienne Ingrid Water G. Lipawen Kayelan C. Daytec Justine M. Amante	Odicar Joice F. cahvez	Best Presentation	7	BCNSHS	Lucia Casim