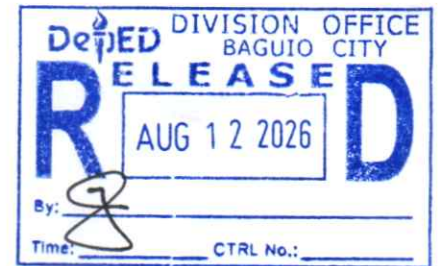




Republic of the Philippines
Department of Education

CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY



August 11, 2026

DIVISION MEMORANDUM

No. **510-2026**

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

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

1. In preparation for the coming Regional Science and Technology Fair, this Office through the Curriculum Implementation Division, will conduct the Division Science, Technology, Engineering and Mathematics Festival for the School Year 2026-2027 on September 8-9, 2026 with the theme **“Harnessing the Unknown: Powering the Future Through Science and Innovation.”** at Manuel L. Quezon and Mabini Elementary Schools.
2. The Science, Technology, Engineering, and Mathematics Fair aims to :
 - a. develop and strengthen Science, Technology, Engineering, and Mathematics (STEM) skills of learners through the conduct of engaging, collaborative, and competitive activities that foster critical thinking, innovation, and problem-solving;
 - b. provide an avenue for learners to communicate research findings, showcase investigations, innovations and robotic skills to the STEM community and the public;
 - c. foster a culture of creativity and innovation among the youth; and
 - d. identify learners to represent the Division in higher level of competitions.
3. Enclosed are the list of contested events, timeline of activities and mechanics.
4. For clarification or inquiries, please get in touch with Ms. Juliet C. Sannad, Chief of the CID at (074) 619-3491.
5. Immediate and wide dissemination of this Memorandum is desired.

SORAYA T. FACULO, PhD, CESO V
Schools Division Superintendent 



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

Enclosure 1. List of Contested Events and Mechanics

Contested Events	Category	Grade level/Participants	Date	Venue	TWG
I. Tuklas	Life Science-	Grades 9-12, Public and Private schools a. Individual b. Team (3 members) (Qualified entry will display during the Division Level)	September 8, 2026	Manuel L. Quezon ES MLQES	Chair:1. Virginia C. Alindayo Co-Chair- 2. Brenda P. Contada 3. Geraldine A. Lapiguera 4. Victorie Ann P. Pulao 5. Michael Edrian S. Ferrer 6. Merda Talosig 7. Jamal V. Lucero 8. Mark Fidelis 9. (MLQES) 10. (MLQES)
	Physical Science-				11. Jerry Manogan 12. Ariel Millare
	Robotics and Intelligent Machines-				13. Lissa Roxas 14. Lany Lalan
	Mathematics and Computational Science-				15. Rufina Cadsu 16. Chrsitopher Coral 17. Jessica A. Yeban
II. STEM Innovation Expo	Individual and Team	Grades 9-12 Public and Private schools a. Individual b. Team (3 members) (Qualified entry will display during the Division Level)	September 8, 2026		18. Mildred Pa-ac 19. Andreline F. Lucero



Republic of the Philippines
Department of Education
 CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

III. Mathematical Investigation	Research Based	SHS, public and private schools A. Individual B. Team(2 to 3 members)	September 8, 2026		Chair: Francisco Copsiyan Jason Habbiling Jones Todlong Cherrielyn Espregante Melchor Ticag Editha Laop Lilybeth Balutoc
	Problem Based	JHS, public and private schools A. Individual B. Team(2 to 3 Members)			Nino Martinez Laila Kiw-isen Eljim Ramos Ricky Landocan Kathy Papcio
IV. Project RISE	Elem-Individual	Learners maybe coached by TVL teachers, and other learning areas	September 8, 2026		Chair-20. Loida C. Mangangey Co-Chair: 21. Marissa A. Wayan 22. Joey Lartec 23. Evelyn R. Nocelo 24. Johnny Buasen 25. Rona Padua 26. Raquelyn B. Arceo
	Elem-Team				
	JHS-Individual				
	JHS-Team				
	SHS-Individual				
	SHS-Team				
V. Creative Technology	Grade 4: Mbot Controlling Challenge: Smart Service Delivery Mission	3 members per team, may send 2 per school(public school)	Sept. 9	Mabini ES	Chair: Mary Jane Malihod Co-Chair: 27. Dave Nardo 28. Dona Castro 29. Dennis Areola 30. Melody Sadcat
	Grade 5: Mbot Driving challenge	3 members per team, may send 2 teams per			31. Janry Egsaen 32. Gerardo Zeus Tomada



Republic of the Philippines
Department of Education
 CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

	Mbot's Color maze Challenge: Program Your Way to Victory	school(public school)			
	Grade 6" Health Science Robot Pharmacist Challenge: Deliver the Right Medicine	3 members per team, may send 2 teams per school(public school)			
	Grade 7-12: Category 1: Arduino Innovation Challenge	3 students per team regardless of grade level, public school			
	Grade 7-12: Category 2: Arduino Coding Challenge	5 students per team regardless of grade level, public school			
VI. INQUIRACE	Grade 3-4	One team(2 members) per district	September 8	Mabini ES	Chair: 42. Jeany Dupo 43. Pauline Punasen 44. Marez Pinder 45. Jessica Ruiz 46. Larry Peng-as (plus coaches will serve as TWG(5) 47. Nancy Dumalili (Judge) 48. Arlon parista 49. Angelbert pednga 50. Elvira Acab 51. Alejo Pacalso
	Grade 5-6	One team(2 members) per district			
	Grades 7-8	One team(2 members) per district			
	Grades 9-10	One team(2 members) per district			



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

Mechanics

I. TUKLAS

A. Categories

The STEM research competition is divided into four (4) categories. The student **researchers and advisor should carefully consider which category best describes the research project.** They may enter the competition as an individual or as a team.

Individual	Team
Life Science	Life Science
Physical Science	Physical Science
Robotics and Intelligent Machines	Robotics and Intelligent Machines
Mathematics and Computational Science	Mathematics and Computational Science

Life Science

This category deals with living organisms such as plants, microorganisms, and animals including humans and their life processes. Projects that involve systematic observation, development, experimentation, and understanding of living things and biological processes belong to this category. Subcategories include Animal Sciences, Biomedical and Health Sciences, Cellular and Molecular Biology, Microbiology, Plant Sciences, and Translational Medical Science.

Physical Science

This category deals with the nature and properties of non- living matter, energy and systems. Projects that involve systematic observation, development, experimentation, and understanding of materials and phenomena belong to this category. Subcategories include Astronomy, Chemistry, Earth and Environmental Sciences, Energy, Engineering Technology, Statics and Dynamics, Sustainable Materials and Design, Environmental Engineering, Materials Science, and Physics.

Robotics and Intelligent Machines

This category deals with the design, implementation, and use of prime technologies and machine intelligence in providing a wide range of innovative solutions and advancements across multiple disciplines to reduce reliance on human intervention. Subcategories include Biomechanics, Cognitive Systems, Control Theory, Machine Learning, and Robot Kinematics.

Mathematics and Computational Science

Mathematics deals with the measurement, properties, and relationships of quantities and sets using numbers and symbols. Subcategories include Algebra, Analysis, Combinatorics, Graph Theory, Game Theory, Geometry and Topology, Number Theory, and Probability and Statistics.



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

Computational Science deals with the development and implementation of mathematical models and simulations to understand natural systems and processes, and solve STEM problems using computers. Subcategories include Computational Biology and Bioinformatics, Computational Chemistry, Computational Mechanics, and Theoretical, Computational and Quantum Physics

B. Eligibility

- Open to Grades 9-12 learners from both **public** and **private** schools.
- The project should include no more than 12 months of continuous research and should not include research activities performed before January of the previous school year (For school year 2026-2027, research projects may be accomplished within 1-12 month/s starting from January 2026 to December 2026).
- Top 3 school winners in each category may submit for screening by the division Scientific Review Committee (SRC) and qualifiers will advance to the Division Science and Technology Fair.

C. General Procedure

- Submit three (3) hard(color-coded) manuscripts and other requirements (forms, etc) to the DSTF focal person, EPS, with the attached report of the conduct of the School Science and Technology Fair and endorsement by the school head on or before **September 2, 2026**(See Appendix 16 for the color-coding). For the parts of the manuscripts, required forms, and color code, refer to:

DepEd (2023). School, Division, Regional, and National Science and Technology Fair Guidebook.

CODES	COLOR CODING
LS-I	GREEN
LS-T	YELLOW
PS-I	BLUE
PS-T	ORANGE
RIM-I	PINK
RIM-T	BROWN
MCS-I	RED
MCS-T	PURPLE

- For qualifiers, submit three (3) soft-bounded hard copies of the color-coded manuscripts with tags to identify the revisions done based on the review and Recommendation Report. List of qualifiers will be issued on or before **September 3, 2026.**



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

II. STEM INNOVATION EXPO

STEM Innovation Expo aims to recognize the most creative and market viable projects addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture and environment

A. Categories

Event	CODES	COLOR CODE
STEM Innovation Expo-Individual	STEMIE-I	Dirty white
STEM Innovation Expo-Team	STEMIE-T	Dirty white folder with green code background

B. Eligibility

- Open to Grades 9-12 learners from both public and private schools.
- The project should include no more than 12 months of continuous research and should not include research activities performed before January of the previous school year (For school year 2026-2027, research projects may be accomplished within 1-12 month/s starting from January 2026 to December 2026.
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Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

III. MATHEMATICAL INVESTIGATION

A. Eligibility

- a. Open to public and private high schools
- b. Different participants per category

B. Categories

- a. Research based
 1. Open to public and private Senior High Schools students..
 2. Individual-Number of entries (minimum of 1 and maximum of 2 entries per school)
 3. Team (2 to 3 members)- Number of entries (minimum of 1 and maximum of 3 entries per school)

Note: Submit entries in 2 copies (soft bond and A4 size) at the DO on or before August 28, 2026(Friday). Qualified to defend for the final manuscript will be informed 2 days before the scheduled contest

b. Problem based

1. Open to public and private Junior High School students.
2. Individual- 1 entry per school
3. Team(2 to 3 members)- 1 entry per school

IV. RESEARCH, INNOVATION, AND SCIENTIFIC EXPLORATION EXPO (RISE)

RISE Expo combines science and culture to develop the 21st century skills of learners at the same time enhances the indigenous products of the community. It allows learners to apply science, mathematics, and communication skills in improving **local products**. While they appreciate ways on making more attractive and appropriate the taste and needs of the new generation.

A. Category

	INDIVIDUAL		TEAM(3 MEMBERS)	
	Code	Folder Color	Code	Folder color
a. Elem	RISE-ELEM-I	Yellow	RISE-ELEM-T	Yellow
a. JHS	RISE-JHS-I	Green	RISE-JHS-T	Green
b. SHS	RISE-SHS-I	Blue	RISE-SHS-T	Blue

B. Eligibility

- a. The event is open to learners in the **PUBLIC** schools.
- b. Each school may enter the following number of projects:
 - Elementary Schools- one entry per school(Grades 5 to 6)
 - High School:
 - ✓ Small School-1 entry
 - ✓ INHS, STNHS, GVNHS, MNHS, Rizal NHS-2 entries



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

- ✓ BCSNHS, BCHS-3 entries
Note: entries in the

C. General Procedure

a. Submit three (3) hard(color-coded) manuscripts and other requirements (forms, etc) to the DSTF focal person, EPS, with the attached report of the conduct of the School Science and Technology Fair and endorsement by the school head on or before **September 2, 2026**. For the parts of the manuscripts (See Appendix 5, page 30), required forms, and color code, refer to:

DepEd (2023). School, Division, Regional, and National Science and Technology Fair Guidebook.

b. For qualifiers, submit three (3) soft-bounded hard copies of the color-coded manuscripts with tags to identify the revisions done based on the review and Recommendation Report. List of qualifiers will be issued on or before **September 3, 2026**.

B. Criteria for Judging

Criteria for Judging		
	1. Originality and Creativity This criterion assesses the uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way.	25%
	2. Community Connection & Impact This criterion evaluates how the innovation research benefits the community or society. It assesses the project's potential to make a positive impact.	30%
	3. Market Attractiveness	15%



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

	This criterion examines the commercial viability of the innovation. It considers the potential market demand, scalability, and sustainability of the project.	
	4. Functionality This criterion evaluates the practical functionality and performance of the innovation. It assesses how well the innovation functions and whether it meets the intended objectives. Researchers should demonstrate evidence of successful testing, validation, or prototypes to support the claims of the innovation's effectiveness	20%
	5. Product presentation This criterion looks at how effectively the innovation and research are presented to the audience. It assesses the clarity, coherence, and visual appeal of the poster display and any supplementary materials. Additionally, researchers' ability to communicate the innovation's key features, benefits, and impact in a compelling and engaging manner is considered. The criterion also considers how well the researchers answer questions.	10%
	Total The criteria were adopted from the National Science and Technology Handbook of the Department of Education.	100%



Republic of the Philippines
Department of Education
 CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

V. CREATIVE TECHNOLOGY

A. Categories

Category	Participants (public schools only)
Mbot Controlling Challenge: Smart Service Delivery Mission	Grade 4: 3 members per team, may send 2 teams per school
Mbot Driving challenge Mbot's Color maze Challenge: Program Your Way to Victory	Grade 5: 3 members per team, may send 2 teams per school
Health Science Robot Pharmacist Challenge: Deliver the Right Medicine	Grade 6: 3 members per team, may send 2 teams per school
Category 1: Arduino Innovation Challenge	Grade 7-12: 3 students per team regardless of grade level, <i>*SHS offering STEM-may send 2 teams per school</i> <i>*BCNSHS- may send 5 teams</i>
Category 2: Arduino Coding Challenge	Grade 7-12: 5 students per team regardless of grade level <i>*SHS offering STEM-may send 2 teams per school</i> <i>*BCNSHS- may send 5 teams</i>

B. General Procedure

a. An online orientation and pre-competition trial will be conducted to guide the participants.

b. Download mechanics at:

https://drive.google.com/drive/folders/1jowZqpGduypjJs_gTntrE5t-B2hBAtyo?usp=drive_link

VI. INQUIRACE

A. General Objectives

- To enhance science inquiry and STE skills of learners through engaging and time-bound challenges.
- To promote teamwork and collaboration among learners from different grade levels within the same category.

B. Participants



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY

- Open to public and private schools, one (1) team per district.
- Each team shall be composed of 2 members from the same category:
 - Category A (Elementary): 1 Grade 3 and 1 Grade 4
 - Category B (Elementary): 1 Grade 5 and 1 Grade 6
 - Category B (Junior High School): 1 Grade 7 and 1 Grade 8,
 - Category C (Junior High School): 1 Grade 9, and 1 Grade 10

C. Competition Structure

a. Elimination Round

Each member of the team will undergo a written quiz which shall cover conceptual knowledge. The top 5 will proceed to the final round.

b. Final Round

- Teams navigate through multiple stations
- Solve challenges at each station:
 - Station 1 to 2 (Easy Phase)-may be given in one station(20 points)
 - Station 3 to 4 (Average Phase)- may be given in one station(30 points)
 - Station 5 to 6 (Difficult Phase)-may be given in one station(40 points)
- Challenges include:
 - ✓ Application of scientific inquiry skills, Science, Technology and Engineering (STE)
- Each team shall start at station 1. They shall submit their answer to the station marshal. The team will proceed to the next station after the time interval set by the Technical Working Group (TWG), based on the nature of the task.
- All teams will start at the same time.
- Each station will be equipped with sufficient materials and equipment to accommodate the five teams simultaneously.
- Each station shall have time limit for completing the task.
- Participants are not permitted to return to any previous station they chose to discontinue, even if they still have remaining time.
- A checkpoint marshal at each station will validate the team's answer or collect the output and shall submit to the judges or scorers.
- Any form of communication between the participants and other parties (e.g. coach, parents, classmates, teachers, etc.) shall warrant automatic disqualification from the competition.
- The total maximum time allotted to complete the challenges is not more than 45 minutes.
- At the end of the competition, the group with the highest cumulative score will be declared the overall champion. In case of a tie, the team with the least working time will be declared the winner.

Prepared by:


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