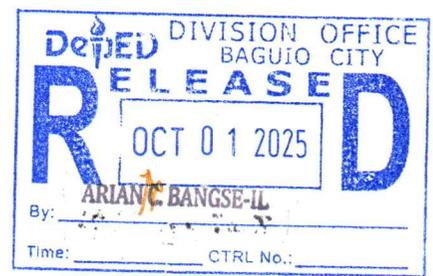




Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY



September 30, 2025

DIVISION MEMORANDUM

No. **611-2025**

2025 DIVISION SCIENCE AND MATHEMATICS FESTIVAL

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

1. Pursuant to the annual conduct of the Regional Science and Mathematics Festival, the Division of Baguio will conduct the Division Science and Mathematics Festival for the School Year 2025-2026 on October 25, 2025 with the theme **“SPATIALYZE: Surveying Societies, Sensing Solutions”** at Baguio City High School.
2. The activity aims to:
 - a. To develop and enhance the knowledge, skills, and creativity of learners in Science, Technology, Engineering, and Mathematics (STEM) through engaging, collaborative, and competitive activities that foster critical thinking, innovation, and problem-solving; and
 - b. To identify learners to represent the Division in the higher level of competition.
3. Enclosed are the list of contested events, timeline of activities and guidelines.
4. Schools and Districts encouraged to conduct additional activities to celebrate Science and Mathematics Festival.
5. Participants shall be entitled to service credits as per DO. 13. S 2024.
6. For clarification or inquiries, please get in touch with Ms. Juliet C. Sannad, Chief of the CID at (074) 619-3491.
7. Immediate and wide dissemination of this Memorandum is desired.

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

For the Schools Division Superintendent:

CARMEL F. MERIS

OIC- Assistant Schools Division Superintendent





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Enclosure 1. List of Contested Events and Mechanics for Science

SCIENCE

I. LIST OF CONTESTED EVENTS

Contested Areas	Category	Grade level/Participants	TWG		
A. TUKLAS Research project Fair	Life Science	Grades 9-12 Individual Event Team Event (Qualified entry will display during the Division Level)	Brenda Contada Pauline Punasen Marilyn D. Bugatti Mildred Pa-ac Marlyn Lucas Joel Hinay		
	Physical Science				
	Robotics and Intelligent Machines				
	STEM Innovation				
	Mathematics and Computational Science				
B. Project RISE	Teacher - Individual	Science Teachers	Marissa Wayan		
C. DAMA					
Grade 3	Water Patrol	See mechanics	Chadrey Madume Darwin Pa-as		
4	Water Patrol				
5	Power Patrol				
6	Power Patrol				
7	Electro SciDama				
8	Dama Sci- Notation				
9	THI Sci-Notation				
10	Thermo SciDama				
D. INQUIRACE	A. Grade 4-6			First Place in the District level	Angelbert Pednga Nancy Dumalili Jeany Dupo Phylis Lang- akan
	B. Grade 7-9			First Place in the District level	
	C. Grades 10-12	First Place in the District level			
E. Robotics	Line Tracing	Elementary JHS/SHS	Dave U. Nardo Jared Lyle Ang Peterson Montemayor Viliu Buya		
	Sumobot	Elementary JHS/SHS			



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II. TIMELINE OF ACTIVITIES

No.	Activity	Date
1	Science Club Month Celebration/School Level activities	September
2	District Level Elimination-Mathematics and Science	October 11-18, 2025
3	Submission of Science Investigatory Projects for Division Scientific Review (SRC)	October 14, 2025
4	Registration of Division Participants: (PSDSs)	October 20, 2025
5	Identification of TWG member per event/committee	October 13-14, 2025
6	Submission of Research Innovation and Scientific Exploration Expo manuscripts (Teacher Category)	October 20, 2025
7	Posting of Qualified TUKLAS entries	October 20, 2025
8	Meeting of Division TWG	TBA
9	Division Science and Mathematics Festival	October 25, 2025

III. MECHANICS

1. Tuklas

A. Categories

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
Innovation Expo	Innovation Expo

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 2025-2026, research projects may be accomplished within 1-12 month/s starting from January 2025 to December 2025).
- 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) and digital copies of the research 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 October



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14, 2025(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.

- 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 October 20, 2025.

2. Research, Innovation, And Scientific Exploration Expo(Rise)

A. Participants

Learner Category

1. The event is open to secondary science teachers in public schools
2. Each school may enter the following number of projects:

- Small School-1 entry
- INHS, STNHS, GVNHS, MNHS, Rizal NHS-2
- BCSNHS, BCHS-3 entries

Note; All participants during the upskilling on Sept. 10-14 shall represent their school

B. Criteria for Judging

1. Refer to RM 358 s 2024



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2024 RISE Regional Expo
(Research, Innovation, Scientific Exploration)

Component Area	Science, Mathematics, English, Technology, Culture & Arts							
Key Stage	Key stage 3 and 4							
Event Title	RISE Regional Tournament							
No. of participants	JHS = 1 (individual), 3 (Team) = 4 SHS = 1 (individual), 3 (Team) = 4							
Performance Standard	Obtain scientific and technological information from varied sources and utilize the information gathered to innovate and improve the quality of existing local products and/or create products useful to the community utilizing the scientific process in solving problems.							
21 st Century Skills	Critical thinking, Communication skills, Creativity, Problem solving, Collaboration, Information literacy, Technology and Engineering skills and digital literacy.							
Description	<p>RISE Expo is a new event under IPED that combine 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 as well as their ICT skills in improving local products. While they appreciate the culture of the community, they will investigate ways on making it more attractive and appropriate to the taste and needs of the new generation.</p>							
Criteria for Judging	<table border="1" style="width: 100%;"> <tr> <td>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.</td> <td style="text-align: center;">25%</td> </tr> <tr> <td>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.</td> <td style="text-align: center;">30%</td> </tr> <tr> <td>3. Market Attractiveness</td> <td style="text-align: center;">15%</td> </tr> </table>		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%
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3. Market Attractiveness	15%							



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	<p>This criterion examines the commercial viability of the innovation. It considers the potential market demand, scalability, and sustainability of the project.</p>	
	<p>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</p>	20%
	<p>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.</p>	10%
	<p>Total</p> <ul style="list-style-type: none"><i>The criteria were adopted from the National Science and Technology Handbook of the Department of Education.</i>	100%



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APPENDIX 5:
 Innovation Expo Paper Format

Title Page and Table of Contents: The title page and table of contents allow the reader to follow the organization of the paper quickly.

Introduction:

1. Features and Specifications – This describes the details of your invention.
2. Market Trends and Opportunities – This part of the report must include three items: what inspired you to develop this invention, an explanation of what problem your invention will solve, and provide supporting details that your invention does not exist yet. Explain what products are already on the market that are somewhat like your invention and describe how yours differs.

Materials and Methods: Describe in detail how you made your invention. Explain what materials were used and how you put them together to make your invention. Your report should be detailed enough so that someone would be able to repeat the steps and make your invention. Directions on how to use the invention are also necessary here. You must include a detailed drawing(s) of your invention.

Results and Discussion: This is the essence of your paper. Compare your results with theoretical values, published data, literature and related studies, commonly held beliefs, and/or expected results. Include a discussion of possible errors, statistics, graphs, pages with your raw collected data, etc. How did the data vary between repeated observations of similar events? How were your results affected by uncontrolled events? What would you do differently if you repeated this project? What other experiments should be conducted?

Conclusions: This discusses the potential applications, possible customer benefits, and the impact of the innovation in solving problems and issues of today and tomorrow.

Acknowledgements: This part gives credit to those who have assisted you, including individuals, businesses, and educational or research institutions.

References/Bibliography: Your reference list should be written based on the APA (American Psychological Association) style formatting and citation.

DEPARTMENT OF EDUCATION

APPENDIX 6:
 Innovation Expo Display Board Format

Title	Create a clear and attention-grabbing title that accurately reflects your innovation.
Introduction	Provide a brief introduction to your innovation, highlighting its purpose and significance.
Problem Statement	Clearly state the problem or challenge that your innovation addresses.
Solution/Innovation	Describe your innovative solution concisely and prominently on the poster.
Features and Specifications	Present the key features and specifications of your innovation using bullet points or visuals.
Materials and Methods	Use simple visuals or graphics to illustrate the materials used and the steps in the development process.
Results and Discussion	Showcase the results of your innovation and compare them to expectations or existing solutions. Use graphs, charts, or infographics to present data effectively.
Benefits	Emphasize the potential benefits of your innovation to the target users or the community.
Visuals	Include images, diagrams, and photographs to enhance the visual appeal and understanding of your innovation.
Conclusions	Summarize the main conclusions and the broader implications of your innovation.
Future Development	Discuss potential future developments or applications of your innovation.
Developers' Name	Indicate the names of the proponent/s (Do not indicate the name of the school/region)

Specifications: Each Display Board must have a 38" x 48" dimensions (portrait style)



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3.SciDAMA

A. Participants

- a. Open to Grades 3-10 learners from private and public schools.

Elementary: Top 2 per District

High School:

District	Top	District	Top
1	2	6	2
2	2	7	3
3	4	8	2
4	2	9	2
5	2	10	3

- b. Category per Grade Level

Grade Level	Category
3	Water Patrol
4	Water Patrol
5	Power Patrol
6	Power Patrol
7	Electro SciDama
8	Dama Sci-Notation
9	THI Sci-Notation
10	Thermo SciDama

- c. Rules

Refer to DECS Memorandum 363 s. 1999

4.Robotics

A.Mechanics and Playing Field

- a. Access the playing field specifications and game mechanics at:

[https://drive.google.com/drive/folders/1MUB08FitjvcPcnwCiDvp8_rUIL8ZijTH?usp=drive link](https://drive.google.com/drive/folders/1MUB08FitjvcPcnwCiDvp8_rUIL8ZijTH?usp=drive_link)

- B. Participants- Schools offering SSES, STE and STE

5. InquiRace

A. General Objectives

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



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B. Team Composition (Public Schools)

- Each team shall be composed of three (3) members from the same category:
 - Category A (Elementary): 1 Grade 4, 1 Grade 5, 1 Grade 6
 - Category B (Junior High School): 1 Grade 7, 1 Grade 8, 1 Grade 9
 - Category C (Senior High School): 1 Grade 10, 1 Grade 11, 1 Grade 12

C. Elimination Round – Written Quiz

- All teams participate in a written test.
- Each member answers an individual set of grade-appropriate questions.
- Team Score = sum of individual scores.
- Top 5 teams per category qualify for the Inquiry Race Finals.
- In case of ties at 5th place, a tie-breaker written question is given (answerable by any member of the tied teams).
- Each participant shall answer a written test individually.
- The written test shall consist of 15 items for the Elementary and 24 for secondary- multiple choice/identification/problem-solving) covering the three strands.
- Time allotment is 30 minutes.
- Each correct answer is equivalent to 1 point for Low Depth of knowledge, 2 points for Medium DoK, and 3 points for High Level of Knowledge.
- The written test score shall form part of the overall score used to determine the winners.

D. Final Round – Inquiry Race

1. Teams move through a series of stations in relay sequence:
 - Station 1 → Grade 4 (or Grade 7 / 10) member
 - Station 2 → Grade 5 (or Grade 8 / 11) member
 - Station 3 → Grade 6 (or Grade 9 / 12) member
 - Final Stage → All members take a team written quiz
2. Overall Time Limit: 40 minutes (including stations and final written quiz)

E. Scoring

- Race Performance (Stations 1–3): 40%
 - Fastest team to finish earns full 40 pts.
 - Others scored proportionally:
$$\text{Race Score} = \frac{\text{Fastest Time}}{\text{Team Time}} \times 40$$
 - Teams exceeding the 40-minute limit = disqualified.
- Final Written Quiz (last stage): 60%
- Written Quiz Score = $\frac{\text{Team Raw Score}}{\text{Total Raw Score}} \times 60$



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Maximum Score

- Final Score = Race Score (40%) + Quiz Score (60%)
- Tie-breaker: If final scores are tied, a sudden-death inquiry question is given, answerable by any team member.

F. Time Limit

- The entire contest (Stations 1–3 + Final Written Quiz) must be completed within 40 minutes.
- There is no individual station time limit.
- Any unfinished tasks or unanswered quiz items when time expires are scored 0.

G. Types of Tasks

- Stations 1–3: Inquiry-based activities such as numerical reasoning, data interpretation, scientific application, or pattern recognition.
- Final Written Quiz: Grade-appropriate test items (multiple choice and/or constructed response) focusing on higher-order thinking skills.

H. Rules of Conduct

- Each member may only answer tasks assigned to their grade level during the race and quiz.
- No calculators, notes, or electronic devices are permitted unless provided by the organizers.
- Teams must follow the relay sequence; skipping stations is not allowed.
- Cheating or misconduct leads to disqualification.

I. Oversight

- Station Marshals validate and record task completions.
- A Board of Judges supervises timekeeping, scoring, resolves disputes, and proclaims winners.

IV. PRIZES

- **PRIZES** – Individual prizes per participant as winner

No.	Rank	Amount/Prize
1	First Place	700.00
2	Second Place	600.00
3	Third Place	500.00

- Learners shall submit a photocopy of their school ID during the contest day.



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Enclosure No. 2. List of Contested Events and Mechanics for Mathematics

2025 DIVISION MATH CONTEST ACTIVITIES

Theme: "SPATIALYZE: SURVEYING SOCIETIES, SENSING SOLUTIONS"

1. QUIZ BEE - Written Individual Competition

Elementary level – Grade 4 ONLY

- Participants are top TWO (2) winners per DISTRICT coming from different schools (20 participating schools)

In charge: Ronnie Manzano

2. NUMBER RACE - Team Contest

- A. Elementary Level** - Participants, 2 learners per Team in one school (one grade 5 and one grade 6)
 -Top 1 winner per DISTRICT (10 participating schools)

In Charge: Samuel Lachica, Decky Beloken and Jimmy Garcia

B. High School Level – Two groups

- Group 1** – Participants, 2 learners per Team in one school (one grade 7 and one grade 8)
- Group 2** – Participants, 2 learners per Team in one school (one grade 9 and one grade 10)

In Charge: Nino Martinez, Primo Mayanggao and Augustine Padya-os

The number of participants per cluster for high school

- | | |
|--|-------|
| a. BCHS | Top 2 |
| b. Previous annexes of BCHS | 1 |
| c. PCNHS | 1 |
| d. Previous annexes of PCNHS | 1 |
| e. BCNSciHS | 1 |
| f. Private schools will join to the nearest public schools | |

3. SUDOKU – HIGH SCHOOL ONLY (OPEN CATEGORY any grade level)

The number of participants per Cluster

- | | |
|--|-------|
| a. BCHS | Top 2 |
| b. Previous annexes of BCHS | 2 |
| c. PCNHS | 2 |
| d. Previous annexes of PCNHS | 2 |
| e. BCNSciHS | 2 |
| f. Private schools will join to the nearest public schools | |

In Charge: Aiza Bitanga and company

4. MATHEMATICS INVESTIGATION PROJECT (High School Level Only)

- No cluster elimination
- Competition will be conducted in the division level

TWG/Judges – Melchor Ticag, Laila Kiw-isen, Jones Todlong, Ricky Landocan, Cherielyn Espregante, Lylibeth Busiley, Eljim Ramos

A. RESEARCH BASED – Senior HS only (Open to all schools-Separate participant per category)

- a- Individual
 - b-Team (2-3 members)
- Participants (Separate per category)

Note: Submit entries in two copies (Soft bond and A4 size) at the DO on or before Oct. 15, 2025 (WENESDAY). Qualified to defend for the Final Manuscript will be informed 2 days before October

25,

2025.



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B. PROBLEM BASED – Junior HS only

- a-Individual
- b-Team (2 - 3 members)

Participants (Separate per category)

- a. BCNHS - 2 entries
- b. BCNSciHS - 2 entries
- c. PCNHS - 2 entries
- d. other schools – 1 entry each

5. MATHEMATICS AND COMPUTATIONAL SCIENCE– In charge, Science Supervisor

DIVISION LEVEL CONTEST

- a. Venue – Baguio City High School
- b. Date : Oct. 25, 2025 (Saturday) Time: 8:00A.M. onwards

1. All qualified participants per district/cluster for the 2025 Division Math Festival must submit official list on or before October 21, 2025.

2. Any issue/concerns will be discussed before the competition (During orientation per contest area)

Note: All public school teachers as coaches and non teaching staff as TWG/judges will be entitled for a service credit or COC provided they will do the required duty during the activity.

PRIZES AND GUIDELINES
Mathematics Division Level Contest

1. PRIZES – Individual prizes per participant as winner

No.	Rank	Amount/Prize
1	First Place	700.00
2	Second Place	600.00
3	Third Place	500.00

2. GUIDELINES

A. Quiz Bee – Grade 4 only and written individual contest.

1. Participants are top TWO (2) winners per DISTRICT coming from different schools.
2. Participants will be in one room seated alternately with a distance from each other.
3. Calculator, cellphone, ipad, camera, and other gadgets inside the testing room are **not** allowed. Bond paper will be provided for solving.
4. Time allotment, 50 minutes and no extension.
5. Checking of papers must be done by the proctors but not to check their own learners.
6. All test papers must be submitted to the assigned quiz master/in charge for recording of scores

and for future references. **Non submission will be disqualified in the contest.**

7. We consider tie for the top 3 winners.

8. Other concerns will be discussed during orientation before the competition.

B. Sudoku – High School only (Open Category- Individual, 2 participants per school/cluster from any grade level)

1. Participants/players are the **10 winner/s** from school/clusters
2. Players are to fill in each column, row, and grid with exactly one of the possible entries e.g. 1 to 9 for a 9 x 9 sudoku puzzle.
3. Scoring guide, one point is given to every column, row, and sub-grid that is correctly



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completed. If the whole puzzle is perfectly solved, the remaining time (every minute and a fraction thereof) shall be added to the accumulated score.

4. Warm-up round, 10 minutes. One each of level one 4 x 4 and 6 x 6 sudoku puzzles shall be solve by players.
5. Preliminary round, 5 minutes. Players shall answer a level one 9 x 9 sudoku puzzle.
6. Follow-up round, 10 minutes. The players shall answer one level two 9 x 9 sudoku puzzle. Since this is an elimination round, only the top **FOUR** scorers shall advance to the last round.
7. Final-round, 15 minutes. The top 3 scorers shall be declared the winner of the competition.
8. Other concerns will be discussed during orientation before the competition.

C. NUMBER RACE – Team competition

Elementary Level

1. Participants must be top 1 per District (Composition-one Grade 5 and one grade 6 in one school).
2. A written elimination will be conducted to identify the top six (6) **Team Qualifiers**.
3. The top 6 team will answer 6 stations with different problems.
4. Materials, tools and equipment **to be** provided by the participants – Basic calculator, ruler,

tape

- measure, and writing materials. To be used if required in the station/s in solving the problems.
5. Each team must answer the problem correctly before proceeding to the next station. There will be a designated teacher in checking the solution/task if correct.
6. The first three teams who answered correctly the 6 stations declared winners.
7. Other concerns will be discussed during orientation before the competition.

High School Level – Two Groups

1. Participants are winner/s per cluster
 - a. Group 1 (Grade 7 and 8) - 6 Teams
 - b. Group 2 (Grade 9 and 10) – 6 Teams
2. Each team will go to each station.
3. Materials, tools and equipment will be provided except for ball pen and writing materials for Solving.
4. Each team must answer the problem correctly before proceeding to the next station. There will be a designated teacher in checking the solution/task if correct.
5. The first three teams who answered correctly or complied with the 6 stations declared winners.
6. Other concerns will be discussed during orientation before the competition.