



Republic of the Philippines  
**Department of Education**  
CORDILLERA ADMINISTRATIVE REGION  
**Schools Division of Benguet**

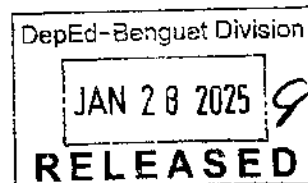
27 Jan 2025

**DIVISION MEMORANDUM**

No. 42 s. 2025

**Conduct of STEMazing- NumbeRace**

To: Public Schools District Supervisor/ District In-Charge  
Elementary School Heads and Teachers  
All Others Concerned



1. Pursuant to the annual conduct of the Festival of Talents-STEMazing (NumbeRace), the Schools Division of Benguet will select the Division representative for the contest based on the scores and time completion of the district winners. Districts are therefore advised to hold their respective district festivals of talents simultaneously on February 14, 2025.
2. This festival introduces a new academic competition, STEMazing (NumbeRace), alongside Aghamazing (Research Proposal Development, conducted during the 2024 DSMF). In line with this, a planning meeting among members of the technical working group (comprising District Math Coordinators and DBAMT officers) is scheduled on February 5, 2025 (Wednesday), at 8:00 AM at Calajo Foodhouse Restaurant, Betag, La Trinidad, Benguet, to facilitate the smooth synchronous conduct of the district competitions.
3. The following are enclosed for information and guidance of all concerned:  
Enclosure 1: Steering Committee and Participants for the Planning Meeting  
Enclosure 2: Guidelines for the STEMazing- NumbeRace
4. This memorandum shall also serve as the Travel Authority on official business for all identified participants in the Enclosure 1.
5. Travel and meal expenses and other incidental expenses of participants during the planning and the activity proper shall be charged against school MOOE, local funds or other sources subject to the usual accounting and auditing rules and regulations.
6. Immediate dissemination of and strict compliance with this memorandum is desired.

  
**ESTELA P. LEON-CARIÑO EdD, CESO III**

Regional Director and  
Concurrent Officer-In-Charge

Office of the Schools Division Superintendent

/CID/RAG/jag/ffp  




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## Steering Committee and Participants of the Planning Meeting

Over-all Chairperson: Schools Division Superintendent

Co-Chairperson: Assistant Schools Division Superintendent

CES-CID: Rizalyn A. Guznian EdD

Member: Jardson S. Onio, EPS-Mathematics

Participant	School	District	Position
1. Sebio P. Badival	Billis ES	Atok	TIH/TIC
2. Pedro P. Langbis	Kayapa ES	Bakun	HT II
3. Lynden E. Olas	Alfredo P. Chanao ES	Bokod	HTII
4. Jonathan I. Gayaso	Naytokyab ES	Buguias	T III/TIC
5. Nestor M. Asiong	Pacalso ES	Itogon 1	SP I
6. Sheila K. Wakit	Dalicno ES	Itogon 2	SP I
7. Pacito Cosinte	James Calabias ES	Kabayan	SP I
8. Francisco M. Contero	Kapangan CS	Kapangan	SP I
9. Margarita S. Baldo	Pakpakitan ES	Kibungan	HT I
10. Mark L. Binay-an	Tacdian ES	La Trinidad	SP I
11. Elena Balong-angey	Balili ES	Mankayan	SP I
12. Luz M. Merino	Sablan Central School	Sablan	SP II
13. Ben G. Aromin	Nangalisan ES	Tuba	HT-III
14. Remus M. Beray	Pontino ES	Tublay	SP I
15. Regina Sarmiento	Puguis ES	La Trinidad	SP II
16. Joemar Soriano	Puguis ES	La Trinidad	T-III
17. Joanna S. Pontino	Bulo ES	Bokod	HT-I
18. Elmerine S. Panagan	Balili ES	La Trinidad	MT-2
19. Michelle N. Ngala	Lepanto ES	Mankayan	MT-I
20. Gabriel Ganawed	Kibungan CS	Kibungan	T-III
21. Vilma S. Beliano	Kibungan NHS	Kibungan	SP I
22. Harold Bacuso	Bodweng ES	La Trinidad	T-III/TIC
23. Norwin Pingo	Bineng ES	La Trinidad	HT



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### Guidelines of STEMazing-NumbeRace

COMPONENT AREA	MATHEMATICS AND PROBLEM SOLVING	
KEY STAGE	Key Stage Two (2) Grades 4 to 6	
NO. OF PARTICIPANT/S	3 students per team (one from each grade level 4-6)	
TIME ALLOTMENT	1.75 hours total Elimination round: 45 minutes Final round: 60 minutes	
PERFORMANCE STANDARD	The learners: <ul style="list-style-type: none"><li>• demonstrate proficiency in applying mathematical concepts to solve authentic real-world challenges;</li><li>• exhibit analytical and strategic thinking skills in approaching complex mathematical problems;</li><li>• manifest effective communication and collaborative skills in mathematical discourse and team problem-solving; and</li><li>• show mastery in integrating concepts across various mathematical domains (Number &amp; Number Sense, Measurement and Geometry, Data and Probability) in practical applications</li></ul>	
21 <sup>ST</sup> CENTURY SKILL/S	Critical Thinking and Problem Solving Collaboration and Communication Digital Literacy	
DESCRIPTION	<b>NumbeRace</b> is a two-phase mathematical adventure competition designed for Grades 4-6 students that combines physical exploration, mathematical investigation, and problem-solving in real-world contexts.	
TECHNICAL SPECIFICATIONS		
A. MATERIALS, TOOLS AND EQUIPMENT	To be provided by the participants: <ul style="list-style-type: none"><li>• Basic calculator</li><li>• Measuring tools (ruler, tape measure)</li><li>• Writing materials</li><li>• Digital device for QR codes (if allowed by organizers)</li><li>• Safety equipment (as specified in orientation)</li></ul>	To be provided by the event organizers: <ul style="list-style-type: none"><li>• Team identification badges</li><li>• Station markers and QR code printouts</li><li>• Scoring sheets and evaluation forms</li><li>• Investigation tools and materials</li><li>• Data collection forms</li><li>• Emergency and first aid equipment</li><li>• Digital tracking system</li><li>• Maps and route guides</li></ul>



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<b>B. VENUE</b>	School grounds or designated competition area with: <ul style="list-style-type: none"> <li>• Multiple checkpoint stations</li> <li>• Investigation areas</li> <li>• Presentation space</li> <li>• Rest areas and first aid stations</li> <li>• Emergency assembly points</li> </ul>
<b>CRITERIA FOR JUDGING</b>	Accuracy (60%) and speed (40%)
<b>EVENT RULES AND MECHANICS</b>	
<b>A. Pre-Competition Requirements</b> <ol style="list-style-type: none"> <li>Teams must complete registration two (2) weeks before the event            Registration Process (2 Weeks Before)           <ul style="list-style-type: none"> <li>• Submission of Regional Team Registration Forms including the following:               <ul style="list-style-type: none"> <li>◦ Region number and name</li> <li>◦ Division/Schools Division Office</li> <li>◦ Name of Regional Mathematics Supervisor</li> <li>◦ Name of Division Mathematics Supervisor</li> </ul> </li> <li>• Team Composition Details:               <ul style="list-style-type: none"> <li>◦ Official team name representing the region</li> <li>◦ Grade levels of members (one each from Grades 4-6)</li> <li>◦ Certified true copy of school records proving grade levels</li> <li>◦ Regional team coach/adviser information with designation</li> </ul> </li> <li>• Regional Endorsement Requirements:               <ul style="list-style-type: none"> <li>◦ Endorsement letter from Regional Director</li> <li>◦ Certification from Schools Division Superintendent</li> <li>◦ Regional screening competition results</li> <li>◦ Proof of winning at division and regional levels</li> </ul> </li> </ul> </li> <li>Mandatory orientation session 1 week before the competition proper               <ul style="list-style-type: none"> <li><input type="checkbox"/> 2-hour mandatory session covering:                   <ul style="list-style-type: none"> <li>• Competition mechanics</li> <li>• Safety protocols</li> <li>• Equipment usage</li> <li>• Scoring system</li> <li>• Emergency procedures</li> </ul> </li> <li><input type="checkbox"/> Hands-on practice activities</li> <li><input type="checkbox"/> Q&amp;A portion</li> <li><input type="checkbox"/> Equipment familiarization</li> </ul> </li> <li>Practice Session (3 Days Before the competition proper)               <ul style="list-style-type: none"> <li>• Mini challenges</li> <li>• Equipment testing</li> <li>• Route familiarization</li> <li>• Team strategy development</li> </ul> </li> <li>Equipment and Documentation Verification               <ul style="list-style-type: none"> <li>• Pre-Event Documentation Checklist:                   <ul style="list-style-type: none"> <li>◦ Team Registration Form</li> </ul> </li> </ul> </li> </ol>	



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- Individual Participant Forms
- Medical Certificates
- Consent Forms
- Equipment Checklist
- Equipment Inspection:
  - Basic calculator
  - Measuring tools
  - Writing materials
  - Digital devices (if allowed)
  - Safety equipment

## **B. Competition Structure**

### **•Elimination Round**

- Individuals and teams navigate through multiple stations
- Solve challenges at each station:
  - Station 1: Grade 4 representative
  - Station 2: Grade 5 representative
  - Station 3: Grade 6 representative
  - Stations 4 and 5: Team
- Challenges from stations 1 to 3 should be grade-level specific.
- Grade-level representatives may ask to be replaced when they cannot answer the challenge assigned to the team.
- Additional 30 seconds for the first replacement and 60 seconds for the second replacement.
- They cannot proceed to the next station unless correct answers are given and confirmed by their team manager.
- Half of the number of teams with the lowest scores will be eliminated

### **•Final Round**

- Teams will go through challenges from Stations 6 to 10.
- Apply mathematical concepts and analyze real-world data
- Develop mathematical solutions and solve problems
- Present solutions and findings

- The highest score for each station is 50 points, with a standard deduction of 3 points for the next player/team who will finish successfully.

## **C. Safety and Compliance**

### ☐ **General Safety Protocols**

- Teams must stay within designated safe zones
- Mandatory use of specified safety equipment
- Access to water stations and rest areas
- Compliance with station-specific safety guidelines

### ☐ **Supervision and Support**



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- Station Masters present at each checkpoint
  - Medical team on standby throughout the competition
  - Safety Officer overseeing all activities
  - Technical support team for digital components
- ☐ **Emergency Response Procedures**
- Medical emergency response protocol
  - Weather emergency contingency plans
  - Technical failure backup systems
  - Lost team search and recovery procedure
- ☐ **Incident Management**
- Immediate reporting to Safety Officer
  - Documentation through incident report forms
  - Implementation of appropriate response measures
  - Post-incident analysis and documentation
- D. Scoring and Awards**
- ☐ **Scoring System Implementation**
- Digital real-time scoring through station verification
  - Individual judge scoring followed by panel consensus
  - Final verification by Head Judge and Technical Committee
- ☐ **Award Categories**
- Main Awards:
    - Overall Champion (Trophy + Certificates)
    - First Runner-up (Medals + Certificates)
    - Second Runner-up (Medals + Certificates)
  - Special Awards:
    - Best Navigation Team
    - Outstanding Investigation
    - Excellence in Calculation
    - Innovation Award
    - Team Spirit Award
  - Recognition:
    - Certificates of participation for all competing students
    - Certificates of appreciation for all coaches
    -
- E. Documentation Requirements**
1. Team registration forms
  2. Medical and consent forms
  3. Competition worksheets
  4. Final presentation materials



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