Republic of the Philippines
Department of Education
REGION VIII
SCHOOLS DIVISION OF NORTHERN SAMAR

September 1, 2025

DIVISION MEMORANDUM No. 283, s. 2025

2025 DIVISION SCIENCE TECHNOLOGY and MATHEMATICS FAIR

To: Assistant Schools Division Superintendent
Chief Education Supervisors
Education Program Supervisors
District and School Heads
Coaches, Contestants, TWGs
All Others Concerned

1. The DepEd-Northern Samar Division announces the conduct of the 2025 Division Science Technology and Mathematics Fair on September 30 to October 2, 2025 at Catarman, Northern Samar;

2. Only the first-place winners in both elementary and secondary levels in all competitions will qualify to join the 2025 DSTMF. Attached are the list of Program Management Team, Technical Working Group, Schedule of Activities for Science and Mathematics Competitions and their Mechanics (Please see Enclosures);

3. There will be a Pre-Registration of Coaches and Contestants on September 15-26, 2025 at the CID and payment at the Division Cashiers' Office. The accomplished Registration Form and a photocopy of the Official Receipt shall be submitted to the CID Office prior to the conduct of the activity.

4. As agreed during the DSTMF Planning Conference, a registration fee of One Hundred Pesos (Php100.00) per contestant and coach shall be collected to cover the division operational expenses and preparations for the regional level competition. All expenses to be incurred during this activity shall be charged to the Division Science Technology and Mathematics Fair Fund.

5. Registration Fees, Meals and Snacks, Transportation, T-shirt Uniforms, and other operational expenses shall be charged to School MOOE, LGU-SEF, or other available sources of funds subject to the usual accounting and auditing rules and regulations.

Address: Mabini St., Brgy. Acacia, Catarman, 6400, Northern Samar
Telephone Nos: (055) 500 1020
Email Address: northernsamar@deped.gov.ph
Division Official Website: https://northernsamar.deped.gov.ph

6. This Memorandum serves as the Travel Authority of the participants.

7. For guidance of all concerned.

GAUDENCIO C. ALJIBE, JR., PhD, CESO VI
Schools Division Superintendent

DepEd Northern Samar
RELEASED
By:
Date: SEP 05 2025

2025 DIVISION SCIENCE TECHNOLOGY AND MATHEMATICS FAIR
September 30 to October 2, 2025
Catarman I and II

SCIENCE CONTESTS AND ACTIVITIES		
DAY 1- September 30, 2025	**DAY 2-October 1, 2025**	**DAY 3-October 2, 2025**
08:00-10:00 AM **Opening Program** *Catarman I CS Gym*	***Continuation of Contests and Events***	***Continuation of Contests and Events***
10:00 AM-12:00 NN **Science Quiz Bee Grades 3-4** **Science Spelling Bee Grades 1-3** **Environmental Quiz Bee Grades 1-3** **Techno-Quiz Grades 1-3** **Science History Grades 1-3** *Catarman SPED Center* **Sci-Dama Elementary & Secondary** *Catarman I Gym* **Science Investigatory Project Congress** *Bulwagan ng mga Guro*	**Science Olympiad Grades 11-12** *Catarman SPED Center*	**AWARDING OF MEDALS AND CERTIFICATES TO THE WINNERS**
01:00 PM-05:00 PM **Science Quiz Bee Grades 5-6** **Science Olympiad Grades 7-10** **Science Spelling Bee 4-6** **Techno-Quiz Grades 4-6** **Science History Grades 4-6** *Catarman SPED Center* **Science Investigatory Project Presentation** *Bulwagan ng mga Guro*		

SCIENCE OLYMPIAD PROCTORS

Grade Level	Proctor	School
7	PRINCESS MAHINAY	SAN VICENTE SCHOOL OF FISHERIES
	SIMEON G. ACEDERA	LAOANG NATIONAL TECHNICAL HIGH SCHOOL
	RUSSIAN KIM E. RECLUTA	LANDUSAN NATIONAL HIGH SCHOOL
	LEIZEL LAGARTO	PAMBUJAN NATIONAL HIGH SCHOOL
	ROBERT D. INFANTE JR.	VIGO NATIONAL HIGH SCHOOL
	ERLIS V. COROT JR.	CATARMAN NATIONAL HIGH SCHOOL
	JANUS KEEVE S. ADA	POLANGI NATIONAL HIGH SCHOOL
	LOVELLA E. LIPATA	GAMAY NATIONAL HIGH SCHOOL
	ANGELICQUE C. ESER	MAXVILLA NATIONAL HIGH SCHOOL
8	MARIA EDITHA E. BASAS	ALEGRIA NATIONAL HUGH SCHOOL
	KIM PAUL A. MUNGCAL	BASILIO B. CHAN MEMORIAL AGRICULTURAL AND INDUSTRIAL SCHOOL
	JAIRO C. GORDA	POLANGI NATIONAL HIGH SCHOOL
	LIZA O. SAURO	LANDUSAN NATIONAL HIGH SCHOOL
	JANICE M. JUSTINIANE	CATUBIG VALLEY NATIONAL HIGH SCHOOL
	LEA C. FLORES	PALAPAG -MONBON INTEGRATED SCHOOL
	MIGUELA C. ESTRELLADO	RAWIS NATIONAL HIGH SCHOOL
	SHARILYN P. DUAZO	GUINDAULAN ROSARIO - GUINDAULAN NATIONAL HIGH SCHOOL
	RYAN SIERVO	DON JUAN FANHS
9	JENNICA A. CAPARROSO	JANGTUD INTEGRATED SCHOOL
	KEZIAH JEM B. REMORERAS	LIPATA NATIONAL HIGH SCHOOL
	JENNA G.TULIPAS	LEONARDO M.AMIGO HIGH SCHOOL
	LIBERTY C. LASTRA	GALUTAN NATIONAL HIGH SCHOOL
	BERNARD B. BALLETA	VERIATO NHS
	ROEMAR CORONG	MALOBAGO-PAGSANJAN NHS
	CLAIRE M. GULTIAN	SAN ANTONIO AGRICULTURAL AND VOCATIONAL SCHOOL
	MARY JOBELLE M. TONACAO	ELADIO T. BALITE MEMORIAL SCHOOL OF FISHERIES
	MARILYN M. AÑONUEVO	SAN JOSE TECHNICAL HIGH SCHOOL
10	CECIL E. SIERVO	BANTAYAN NATIONAL HIGH SCHOOL
	JEAN C. LUSPE	LOPE DE VEGA NATIONAL HIGH SCHOOL
	NESSAN O. GALLO	ACEREDA INTEGRATED SCHOOL
	LAORENO, JENNIFER L.	CABATUAN NATIONAL HIGH SCHOOL
	SARAH B. EVANGELISTA	SAN ANTONIO NATIONAL HIGH SCHOOL
	SARAH E. SORIANO	SAN ANTONIO INTEGRATED SCHOOL
	MELODY BERNAN	DANCALAN IS
	EMILY B. NOVIO	LA PERLA NHS
	EZRA MAE MENGULLO	GALA VS
11	CRISTOPHER S. LAODENIO	MAPANAS AGRO-INDUSTRIAL HIGH SCHOOL
	SUSAN M. ENANO	VICTORIA NATIONAL HIGH SCHOOL
	JOHN REY P. PAJANTOY	E.J. DULAY NATIONAL HIGH SCHOOL
	MARY VENETH P. SERRONA	BIRI NATIONAL HIGH SCHOOL

Grade Level	Proctor	School
	MARY ANNE M. OLEGARIO	HINABANGAN NATIONAL HIGH SCHOOL
	REYNALDO V. PASCUA	BULAO NATIONAL HIGH SCHOOL
	RENALYN B TAN	GUILLERMO C ADRIATICO SR. NATIONAL HIGH SCHOOL
	SEMEON ACEDERA	LAOANG NHS
12	GRACE LAGUDA ESTRELLA	BUENAVISTA NATIONAL HIGH SCHOOL
	ANALIZA I. MEJICA	SUMOROY AGRO-INDUSTRIAL SCHOOL
	NOLLY NACIS	SRPVHS
	NORCIO S. QUILICOL JR.	LORENZO S. MENZON AGRO-INDUSTRIAL SCHOOL
	BASILISA DONCILLO	BOBON SPC
	DANNA DEE O. MACALOS	HIBUBULLAO NATIONAL HIGH SCHOOL
	VANEZA L. CRISTO	ROSARIO NATIONAL HIGH SCHOOL

SCI DAMA FACILITATORS

Chief Arbiter:	DENDO G. BALANQUIT (SAN ROQUE-PAMBUJAN VHS)
Arbiters:	ANTHONY A. ABRILLO (SUMOROY AIS) FROMENZ MODRIGO (SUMOROY AIS) ROGELIO ROY C. EVASCO (PAMBUJAN NHS) FRANCO AQUINO (BBCMAIS)

SCIENCE, TECHNOLOGY, AND MATH FAIR TWG

1. EUFEMIO D. ADARAYAN JR. – PAMBUJAN NHS
2. LIBERTY LASTRA – GALUTAN NHS
3. ELVIN JARITO – DON JUAN F. AVALON NHS
4. RUEL CARPON – ALLEN NHS
5. JANICE LORETO – CATARMAN NHS
6. CRISTINA LOBERIO – PANGPANG IS
7. EMER CAPATE – CAPACUJAN NHS
8. RONNAGIL JOY LARGO – CAPUL AIS
9. JOMAR MEJICA – RAWIS NHS
10. MELISSA ESPIÑA – LAOANG NHS
11. FATIMA H. ARAZA – BOBON SPC
12. WALTER OLIVAS – MONDRAGON AIHS

PASCIDUNGOG SA MATHINIK 2025
FACILITATORS IN SCIENCE (ELEMENTARY)

CONTEST CATEGORY	PRIMARY (GRADES 1-3)	INTERMEDIATE (GRADES 4-6)
SCIENCE QUIZ (GRADES 3 – 6)	Ernil Brundi A. Espelita (Las Navas II) Joefrey P. Rocamola (Catubig III) Marvin E. Collamar (Victoria) Mylene M. Montibes (San Roque) Margie Marino (Catarman II) Analyn M. Ney (Allen)	
ENVIRO-QUIZ	Katrina Pinca (Laoang II) Marissa C. Ong (Laoang I) Mar C. Patilan (Catarman V) Ruth Quimsing (Pambujan II) Divina Joy Bayupa (Mondragon II) Lyra Jean C. Irinco (Bobon)	Karen J. Cerbito (Pambujan II) Ezmirihil B. Aguilando (Silvino Lubos) Rogelyn P. Baltazar (Victoria) Analyn E. Beck (Catarman IV) Leonora Fernandez (Laoang III) Brenda P. Bergoro (Laoang)
TECHNO-QUIZ	Rowena Marino (CAtarman II) Jeffrey E. Bilaran (Victoria) Raquel P. Cahusay (Catarman II) Niña Lucia Gremio (Catarman I) Casius R. Celajes (Catubig I) Erwin Acebuche (Laoang III)	Alberto B. Dultra (Bobon) Faith G. Muncada (Victoria) Romel V. Damiar (San Vicente) Darwin E. Tan (Lavezares II) Carmela C. Balag (lavezares) Domelia B. Nueva (Gamay)
SCIENCE HISTORY QUIZ	Maribel D. Magdao (Laoang IV) Suchita Dela Cruz (San Antonio) Aileen D. Capate (Mondragon III) Ma. Liza L. carias (Catarman VI) Oliver S. Cascaño (San Isidro II) Regine L. Muñez (Pambujan II)	Rubylyn C. Barsolaso (Palapag III) Judith B. Fernando (Allen II) Jay Ann E. Corporal (Las Navas II) Marylyn C. Sidro (Mondragon I) Amila B. Duazo (Rosario) Ma. Cecilia L. Gallano (Catarman I)
SCIENCE SPELLING BEE	Marvin Q. Picardal (Lapinig) Julito C. Tindoy (Palapag 1) Vivien L. Salomon (San Roque) Annabelle G. Verzosa (Catarman III) Bernardo O. Madeja (Bobon) Joyce A. Senobio (San Jose)	Ruthelyn B. Gajutos (Mapanas) Rovilla Cagas (Catarman I) Girlie M. Betito (lavezares) Jason A. Tarrayo (Catubig) Michelle A. Lucero Maricel T. Tan (San Roque)
SCI-DAMA	Chief Arbiter: Ryan Peloni (Pambujan I) Christian Martires (Lavezares II) Gina Balleta (Catarman I) Maribel Balleta (Catarman IV) Jonathan Dizon (Catarman IV) Cyril Cerbito (Laoang I) Roger Gloriane (Catubig III) Rodel Acedera (Catubig III) Emma Deolas (Mondragon II)	

PROGRAM MANAGEMENT TEAM

Division Association of Science Teachers Officers (Elementary)

President: Rhodora A. Borja
Vice President: Analyn C. Calaque
Secretary: Mary Ann Rosadiño
Treasurer: Shiela Y. Amor
Auditor: Daisy Dominica B. Monares
Business Manager: Aileen A. Genaralao
PIO: Zeta M. Pernito
Peace Officers: Katrina Pinca
Maribel D. Magdao

Northern Samar Division
Science Olympiad Mechanics

Introduction

The **Northern Samar Division Science Olympiad** is a division-wide competition that aims to inspire a love for science, encourage critical thinking, and foster academic excellence among students from Grades 7 to 12. This event provides an avenue for young learners to showcase their scientific knowledge and skills, highlighting the importance of Earth Science, Chemistry, Physics, and Biology as integral components of their education under the **Current** and **Revised K to 12 Curricula**.

Objectives

The Northern Samar Division Science Olympiad seeks to:

1. Strengthen understanding of core science concepts across various domains.
2. Foster students' ability to analyze and solve problems using scientific principles.
3. Provide a platform for equitable, standardized assessment of science proficiency.
4. Acknowledge and celebrate the achievements of outstanding students and districts.
5. Inspire students to pursue lifelong learning in science.

Mechanics of the Competition

1. Participants

- There should be at most **three representatives** per grade level from **each participating secondary school**.
- Participants are selected based on school-level screenings or equivalent qualifications.

2. Test Format

1. **Questionnaire**:
    - The test consists of **24 multiple-choice questions**.
    - Questions will be evenly distributed across the **four domains of science**:
        - **Earth and Space**: 6 questions
        - **Matter**: 6 questions
        - **Force, Motion, and Energy**: 6 questions

- **Living Things and their Environment**: 6 questions ○ Questions are designed according to the **MATATAG and K to 12 Curricula**, tailored to each grade level with **PISA-like difficulty and structure**.

2. **Scoring System**:
   - Each correct answer earns **4 points**.
   - Each incorrect answer incurs a **1-point deduction**. ○ Questions left blank earn **0 points**.
   - Maximum score: **96 points**.
3. **Time Allocation**:
   ○ Participants will have **1 hour** to complete the test.

3. Test Administration

1. **Venue**:
   - Participants will be assigned to examination rooms based on their grade levels.
2. **Materials**:
   - Participants will be provided with:
     - Official **answer sheets** (machine scannable i.e., ZipGrade)
     - **Question booklets**
     - **Scratch paper** (if required) ○ Scientific calculators are allowed for **Grades 7–12** participants (for Physics/Chemistry-related questions).
3. **Seating and Monitoring**:
   - Participants will be seated apart to ensure fairness.
   - Proctors will monitor the examination to maintain order and prevent misconduct.
4. **Submission**:
   ○ Only answers marked on the official answer sheets will be accepted. ○ Participants must remain in the room until the test concludes to maintain focus and avoid disruptions.

4. Rules and Regulations

1. Participants must adhere to all instructions provided by the proctors.
2. Latecomers will be allowed to join but will not receive additional time.
3. Any form of cheating or disruptive behavior will result in immediate disqualification.
4. Electronic devices (except approved calculators) are strictly prohibited.

Scoring and Recognition

1. Scoring

- Correct answer: **4 points**
- Incorrect answer: **-1 point**
- Blank answer: **0 points**
- Maximum possible score: **96 points**

2. Awarding Criteria

Awards will be given based on the total score:

- **Gold Medal**: Scores of **80–96 points**
- **Silver Medal**: Scores of **64–79 points**
- **Bronze Medal**: Scores of **48–63 points**
- **Merit Certificate**: Scores of **32–47 points**

3. Recognition

1. **Medalists**:
    - Gold, Silver, Bronze medalists, and Merit Certificates will be announced and awarded during the ceremony.
2. **Participation Certificates**:
    - All participants will receive a certificate of participation.
3. **District Awards**:
    - Districts with outstanding performance may receive additional recognition, such as plaques or certificates.

Post-Contest Procedures

1. **Result Verification**:
    - Scores will be tabulated and verified by the organizing committee.
2. **Announcement of Results**:
    - Winners will be announced at the conclusion of the event.

DIVISION MATHEMATICS TECHNICAL WORKING GROUP (DM-TWG)
2025 DIVISION SCIENCE TECHNOLOGY and MATHEMATICS FAIR
September 30 to October 2, 2025
Catarman-I and II

MATHEMATICS PROGRAM MANAGEMENT TEAM	TECHNICAL WORKING GROUP
DR. GAUDENCIO C. ALJIBE, JR., CESO V Schools Division Superintendent	**STRATEGIC INTERVENTION MATERIALS** **(Teacher Category) -** Dr. Emily M. Adrayan
DR. SYLVIA D. VILLANUEVA CID Chief	**NUMBER RACE (KS-2) –** Dr. Roberto Galono All Math TWG
DR. EMILY M. ADRAYAN EPS-Mathematics	**DAMATH (Elementary) –** Grades 5&6 - Dr. Antonio Laodenio Grades 3&4 - Rebecca Gayon Grades 1&2 - Mildred Horca
DR. ROBERTO GALONO	
DR. ARNIO SALUDARIO	**DAMATH (Secondary) –** Grades 9&10- Dr. Arnio Saludario Grades 7&8 - Freddie Ortenero
DR. FRANCISCO BOTAIRE, JR.	
DR. MEDA BANDAL	**QUIZ BEE (Elementary) –** Dr. Francisco Botaire Dr. Nestle de Asis
DR. GERALDINE REJUSO	**QUIZ BEE (Secondary) –** Evelyn Virtudes Jake Hena
DR. ANTONIO LAODENIO	**MATH OLYMPIAD (Elem) –** Dr. Analyn Balero Allan Remedillo
ELVIRA ORTENERO	**MATH OLYMPIAD (Sec) –** Dr. Geraldine Rejuso Raymond Gorda
FREDDIE ORTENERO	**MATH SPELLING BEE: Grades 1,2,3** - Elvira Ortenero
DR. NESTLE DE ASIS	**OPENING PROGRAM & HALL PREPARATION** Science and Math TWG
ALLAN REMEDILLO	**REGISTRATION:** DIVISION OFFICE CASHIERS' OFFICE & CID Office
REBECCA GAYON	**CONTEST VENUE/ROOM:** Dr. Mary Jane Aguirre, Dr. Arnio Saludario & Dr. Francisco Botaire, Jr.
MILDRED HORCA	**AWARDS: (MEDALS and CERTIFICATES)** Elementary -Rebecca Gayon
JAKE HENA	**AWARDS: (MEDALS and CERTIFICATES)** Secondary – Dr. Evelyn Virtudes
DR. ANALYN BALERO	**DOCUMENTER:** Elementary- Dr. Nestle de Asis
DR. EVELYN VIRTUDES	**DOCUMENTER:** Secondary - Jake Hena

DIVISION MATHEMATICS TECHNICAL WORKING GROUP (DM-TWG)
2025 DIVISION SCIENCE TECHNOLOGY and MATHEMATICS FAIR
September 30 to October 2, 2025
Catarman-I and II

<table>
<tr><th colspan="3">MATHEMATICS CONTESTS/ACTIVITIES</th></tr>
<tr><th>DAY-1 September 30, 2025</th><th>DAY-2 October 1, 2025</th><th>DAY-3 October 2, 2025</th></tr>
<tr><td>8:00 AM – 10:00 AM
OPENING PROGRAM
Catarman I CS Gym</td><td rowspan="2">8:00 AM – 12:00 NN
MATH OLYMPIAD (Team of 3)
Elem: Catarman I CS Rooms
Sec: Catarman I CS Gym

8:00 AM – 12:00 NN
Continuation of
DAMATH ELEMENTARY & SECONDARY
Catarman II

8:00 PM – 12:00 NN
Continuation of
NUMBER RACE
Catarman SPEd Center Ground</td><td>8:00 AM – 12:00 NN
SIM (TEACHER CATEGORY)
Division Office - Library Hub</td></tr>
<tr><td>10:00 AM – 12:00 NN
MATH SPELLING BEE
Catarman I CS
Grade-1 Room #1
Grade-2 Room #2
Grade-3 Room #3

DAMATH ELEMENTARY
Catarman II DLRC
DAMATH SECONDARY
Catarman II Covered Court</td><td>8:00 AM – 12:00 NN
CHAMPIONSHIP for
DAMATH ELEMENTARY & SECONDARY
Catarman II</td></tr>
<tr><td colspan="3">LUNCH BREAK</td></tr>
<tr><td>1:00 PM – 3:00 PM
QUIZ BEE (INDIVIDUAL)
Grades 1 to 10
Catarman I CS Rooms</td><td rowspan="2">1:00 PM – 5:00 PM
Continuation of
MATH OLYMPIAD (Team of 3)
Elem: Catarman I CS Rooms
Sec: Catarman I CS Gym

1:00 PM – 5:00 PM
Continuation of
DAMATH ELEMENTARY & SECONDARY
Catarman II</td><td rowspan="2">AWARDING OF MEDALS & CERTIFICATES TO THE WINNERS</td></tr>
<tr><td>3:00 PM – 5:00 PM
NUMBER RACE
Catarman SPEd Center Ground</td></tr>
</table>

Guidelines and Rules for the Division Spelling Bee in Mathematics
(For Key Stage 1 – Grades 1 to 3)

I. Objectives

1. To enhance pupils' mastery of fundamental mathematical vocabulary and concepts.
2. To develop confidence, accuracy, and presence of mind in oral spelling.
3. To promote healthy competition and academic excellence among young learners.

II. Eligibility

1. The competition is open to **Grades 1–3 pupils** officially enrolled in public and private schools within the Division.
2. Each school may send **one representative per grade level** (maximum of 3 participants per school).
3. Contestants must be endorsed by their respective school heads.

III. Mechanics of the Competition

1. **Word List Preparation**
   - The official word list shall be prepared by the Division Mathematics Supervisors in coordination with the TWG.
   - Words shall be age-appropriate and limited to mathematics-related vocabulary suitable for Grades 1–3.
   - Number of items for Grade 1 is 20; Grade 2 is 25; Grade 3 is 30. In case of tie, 5 additional items are ready as tie-breaker.
2. **Quiz Master Role**
   - The quiz master shall clearly state the word, use it in a sentence, and repeat it.
3. **Spelling Procedure**
   - Contestants will write the word right after the quiz master repeat the given word and say "Go".

IV. Awards

- **Champion, 1st Runner-Up, and 2nd Runner-Up** shall be declared per grade level.
- Winners shall receive certificates, medals, and recognition during the awarding ceremony.

Guidelines and Rules for the Division Mathematics Quiz Bee
(For Grades 1–10)

I. Objectives

1. To promote mastery of mathematical concepts and problem-solving skills across grade levels.
2. To strengthen analytical thinking, speed, and accuracy among learners.
3. To encourage academic excellence and healthy competition in Mathematics.

II. Eligibility

1. The competition is open to all **public and private schools within the Division**.
2. For Elementary, only the district winner and for Secondary, only the school winner qualify as contestant for the Division Quiz Bee Competition.
3. Contestants must be officially enrolled and registered.

III. Coverage of Questions

1. Questions shall be based on the **Most Essential Learning Competencies (MELCs)** and curriculum standards in Mathematics per grade level.
2. Levels of difficulty:
    - **Easy Round** – Recall and basic understanding (e.g., definitions, simple operations).
    - **Average Round** – Application of skills and multi-step problems.
    - **Difficult Round** – Higher-order thinking, analysis, and problem-solving.
3. Each grade level shall have a separate set of questions appropriate to their competency level.

IV. Mechanics of the Competition

1. **Format**
    - The quiz bee shall be conducted in **three rounds**: Easy, Average, and Difficult.
    - Questions shall be answered **individually**.
2. **Questioning Procedure**
    - The quizmaster will read each question **twice only**.
    - Contestants will bring pen and will be provided with answer sheets.
    - After the time limit, contestants must raise their pens simultaneously when the timekeeper says **"Pens Up!"**
3. **Time Allotment per Question**
    - Easy Round: **20 seconds**
    - Average Round: **30 seconds**
    - Difficult Round: **45 seconds**
4. **Scoring**
    - Easy Round: **1 point each**
    - Average Round: **2 points each**
    - Difficult Round: **3 points each**
    - No deductions for wrong answers.
5. **Elimination and Finalists**
    - Scores will be tallied after each round.
    - The contestant with the **highest total score** per grade level will be declared the **Champion**, followed by the **1st Runner-Up** and **2nd Runner-Up**.
    - In case of a tie, a **tiebreaker round** with one clincher question will be given.

V. Rules of Conduct

1. Contestants must remain seated and quiet.
2. Coaches and members of the audience are strictly prohibited from giving hints, gestures, or comments.
3. Any act of dishonesty or misconduct will result in disqualification.
4. Decisions of the Board of Judges are **final and irrevocable**.

VI. Officials of the Competition

1. **Quizmaster** – Reads the questions and enforces mechanics.
2. **Timekeeper** – Keeps track of the time limit for each question.
3. **Scorers** – Record and tally points accurately.
4. **Board of Judges** – Resolves issues and validates answers.

VII. Awards

- **Champion, 1st Runner-Up, and 2nd Runner-Up** shall be declared per grade level.
- Winners will receive medals/certificates and recognition during the awarding ceremony.

Guidelines and Rules for the Division Mathematics Olympiad
(For Grades 1–10)

I. Objectives

1. To develop learners' logical reasoning, problem-solving skills, and mathematical creativity.
2. To provide a venue for pupils and students to apply mathematics in higher-order thinking situations.
3. To foster academic excellence, sportsmanship, and love for mathematics among learners in the Division.

II. Eligibility

1. The competition is open to all **public and private schools within the Division**.
2. For Elementary, only the district winners (3 pupils) and for Secondary, only the school winners (3 students) qualify as contestant for the Division Mathematics Olympiad.
3. Contestants must be officially enrolled and registered.

III. Coverage of Questions

1. Questions shall be aligned with the **Most Essential Learning Competencies (MELCs)** and K to 12 Curriculum Standards in Mathematics per grade level.
2. Questions will test:
    - **Basic Knowledge & Skills** (recall, definitions, facts)
    - **Application & Computation** (multi-step problems, problem-solving)
    - **Higher-Order Thinking Skills (HOTS)** (reasoning, analysis, and non-routine problems)
3. The difficulty of the questions shall increase according to grade level.

IV. Competition Format

The Olympiad shall consist of **two parts**:

1. Written Elimination Round

- All contestants per grade level shall answer a written test.
- Time Allotment: **30 minutes (Grades 1–3), 45 minutes (Grades 4–6), 60 minutes (Grades 7–10).**
- The top **5 scorers per grade level** will advance to the **Final Round.**

2. Final Round (Oral/Board Round)

- Contestants answer problems one at a time using slates/boards.
- Rounds: **Easy, Average, and Difficult.**
- Time Limits:
    - Easy: **30 seconds**
    - Average: **1 minute**
    - Difficult: **2 minutes**
- Contestants show their answers simultaneously when the timekeeper says **"Boards Up!"**.

V. Scoring System

1. **Written Round** – Each correct answer earns 1 point. Scores determine finalists.
2. **Final Round** – Points per question:
    - Easy: **1 point**
    - Average: **2 points**
    - Difficult: **3 points**

3. The contestant with the **highest cumulative score** after all rounds is declared **Champion**, followed by **1st Runner-Up** and **2nd Runner-Up**.
4. **Tiebreaker**: If there is a tie, an additional clincher problem will be given.

VI. Rules of Conduct

1. Contestants must follow time limits strictly. Late answers will not be considered.
2. Calculators and electronic devices are not allowed.
3. Contestants and coaches must remain in designated areas and observe silence.
4. Audience must maintain order and refrain from giving hints, reactions, or distractions.
5. Any act of dishonesty or misconduct will result in disqualification.

VII. Officials of the Competition

1. **Quizmaster/Facilitator** – Reads and explains the problems.
2. **Timekeeper** – Signals the start and end of allotted time.
3. **Scorers** – Record and tally scores.
4. **Board of Judges** – Resolves disputes, validates answers, and declares winners.

VIII. Awards

- **Champion, 1st Runner-Up, and 2nd Runner-Up** shall be declared for each grade level.
- Winners shall receive medals, certificates, and recognition during the awarding ceremony.

A. Number Race

COMPONENT AREA	MATHEMATICS AND PROBLEM SOLVING
KEY STAGE	Key Stage Two (2) Grades 4 to 6
EVENT TITLE	NumberTrek: Navigate, Investigate, Calculate!
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: • demonstrate proficiency in applying mathematical concepts to solve authentic real-world challenges; • exhibit analytical and strategic thinking skills in approaching complex mathematical problems; • manifest effective communication and collaborative skills in mathematical discourse and team problem-solving; and • show mastery in integrating concepts across various mathematical domains (Number & Number Sense, Measurement and Geometry, Data and Probability) in practical applications
21ST CENTURY SKILL/S	Critical Thinking and Problem Solving Collaboration and Communication Digital Literacy
CREATIVE INDUSTRIES DOMAIN	• Digital Interactive Media Domain (through educational gaming and interactive mathematical applications) • Creative Services Domain (through creative research and development, cultural and recreational services) • Design Domain (through the creation of solutions that address mathematical and spatial problems) Audiovisual Media Domain (through educational content development)
DESCRIPTION	**NumbeRace** 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: • Basic calculator
	To be provided by the event organizers: • Team identification badges

	• Measuring tools (ruler, tape measure) • Writing materials • Digital device for QR codes (if allowed by organizers) • Safety equipment (as specified in orientation)	• Station markers and QR code printouts • Scoring sheets and evaluation forms • Investigation tools and materials • Data collection forms • Emergency and first aid equipment • Digital tracking system • Maps and route guides
B. VENUE	School grounds or designated competition area with: • Multiple checkpoint stations • Investigation areas • Presentation space • Rest areas and first aid stations • Emergency assembly points	
CRITERIA FOR JUDGING	Accuracy (60%) and speed (40%)	

EVENT RULES AND MECHANICS

A **Pre-Competition Requirements**

1. Teams must complete registration two (2) weeks before the event

Registration Process (2 Weeks Before)

- Submission of Regional Team Registration Forms including the following:
  - Region number and name
  - Division/Schools Division Office
  - Name of Regional Mathematics Supervisor
  - Name of Division Mathematics Supervisor
- Team Composition Details:
  - Official team name representing the region
  - Grade levels of members (one each from Grades 4-6)
  - Certified true copy of school records proving grade levels
  - Regional team coach/adviser information with designation
- Regional Endorsement Requirements:
  - Endorsement letter from Regional Director
  - Certification from Schools Division Superintendent
  - Regional screening competition results
  - Proof of winning at division and regional levels

2. Mandatory orientation session 1 week before the competition proper
   - 2-hour mandatory session covering:
     - Competition mechanics
     - Safety protocols
     - Equipment usage
     - Scoring system
     - Emergency procedures
   - Hands-on practice activities
   - Q&A portion
   - Equipment familiarization

3. Practice Session (3 Days Before the competition proper)
   - Mini challenges
   - Equipment testing
   - Route familiarization
   - Team strategy development

4. Equipment and Documentation Verification

- Pre-Event Documentation Checklist:
  - Team Registration Form
  - 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

- 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

GUIDELINES FOR THE 2025 DIVISION DAMATH COMPETITION

1. Only the registered contestants are qualified to join the competition.

2. The contestants and coaches shall also register their names in the registration form in their respective categories.

3. Each registered player must provide or bring DAMATH board and chips, however, it shall be the arbiters who will determine which board, and chips will be used during the game.

4. In terms of Chips position, the existing formation of chips shall be used.

5. Championship Determination

The tournament shall employ a double elimination format to determine the overall champion. Under this system, a participant must lose twice before being eliminated from contention. This structure ensures a fair and competitive environment, allowing participants a second opportunity to advance following an initial loss.

6. In case of tie, win-over the other shall be applied.

7. In case of triple tie, point system shall be applied.

8. Each game shall only be played for 20 minutes.

9. The maximum time given to the players in moving, taking chips and recording is only 1 minute.

10. Moving or taking chips must be done first before scoring.

11. A player records his/her own move. Computation of running scores shall be done within the given 1 minute time and computation of total scores may be done after the game.

12. In taking a chip pass is not allowed. If a player has an option, then he/she may use 1 minute but must take the chip/s anyway. If a player has no option, then he must take the chip/s right away without consuming the 1 minute.

13. In moving a chip, touch move should be strictly observed except when the move contradicts the general guidelines on the DAMATH.

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Division Official Website: https://northernsamar.deped.gov.ph

14. No save by the bell at the last minute of the game. Continuation of move will be observed when a chip/s is to be taken.

15. Only the players shall be allowed to raise questions, complaints, clarification, or any infractions during the game by raising his/her hand.

16. The arbiter who is assigned to the concerned level or category where the complaint has been raised shall be responsible in resolving the said complaint based on his sound and impartial judgement.

17. Only the facilitators, arbiters and contest management are allowed to stay within the playing venue.

18. Coaches, parents, and chaperons must stay at least 1-meter radius outside the playing venue.

19. In case of a draw, a ten-minute rematch will be played after a round robin has been made.

20. Any two violations a player will commit shall forfeit his/her game after he fails to observe the first warning by any of the tournament officials.

List of Violations:

a. Annoying or causing acts like tapping the chair, table, whistling or talking.

b. Applying "delaying tactics or delaying the game" and intentionally applying the 1-minute rule.

c. Improper arrangement of chips.

d. Wrong writing of moves or operations.

e. Writing a move or operation before moving a chip.

21. Only one score sheet shall be accomplished by the two players whereby any incorrect entries on the said score sheet shall be the sole responsibility of each player. In case of incorrect entries in the score sheet, a player must immediately call the attention of the facilitator by raising his or her hand. As determined by the facilitator, any incidence of incorrect journal entry in the score sheet a corresponding point shall be deducted from the erring players TOTAL SCORE, after correcting said entry errors. The corresponding deductions shall be as follows:

5 points for DAMATH the Whole Numbers (in every wrong entry)

0.5 points for DAMATH the Decimals

1 point for DAMATH the Positive & Negative Fractions

5 points for DAMATH the Integers

10 points for DAMATH the Radicals &

30 points for DAMATH the Polynomial

22. Players, coaches, and spectators are not allowed to make post-game analysis or play against other players/coaches/spectators and discuss finished or unfinished games, and coaches are only allowed within the playing area if requested by the arbiter tournament manager.

23. Players are not allowed to eat or drink at the playing area while game is in progress.

24. Defaulting time is five (5) minutes.

25. No complaints will be entertained after the players have signed the score sheets.

26. The player having the GREATER TOTAL SCORE wins the game.

27. The decision of the management is final and irrevocable.

DAMATH Game Scoring Guidelines

IMPORTANT NOTES IN SCORING

• For DAMATH the Whole Numbers—All SCORES must be a whole number. Round off if necessary. Calculator is only allowed to be used for the computation of the GRAND TOTAL SCORE.

3-4=NS 3÷0=NS

• For DAMATH the Decimals—All SCORES must be in decimal. Round off to the nearest hundredths if necessary. Calculator is only allowed to be used for the computation of the GRAND TOTAL SCORE.

• For DAMATH the Positive & Negative Fractions - SCORES must be expressed as a fraction. Calculator is only allowed to be used for computation of GRAND TOTAL SCORE

• For DAMATH the Integer - SCORES must all be integers. Calculator is only allowed to be used for computation of GRAND TOTAL SCORE.

3÷0=NS

• For DAMATH The Radicals - SCORES must all be simplified. Calculator is only allowed to be used for computation of GRAND TOTAL SCORE

• For DAMATH The Polynomial - All SCORES must be expressed as a whole number. Use of calculator is allowed. In recording moves, especially when it involves taking a chip, coordinates of remaining chip where taker landed MUST BE SPECIFIED.

SAMPLE COMPUTATION OF SCORES for:

DAMATH the Radicals

- $-9\sqrt{2}$ takes $-\sqrt{8}$ and lands on (2, 5) whose operation is addition (+)
  Computation: $-9\sqrt{2} + (-\sqrt{8}) = -9\sqrt{2} - 2\sqrt{2}$
  $= -11\sqrt{2}$ (SCORE)

- $16\sqrt{32}$ takes $-9\sqrt{2}$ and lands on (4, 5) whose operation is multiplication (x)
  Computation: $(16\sqrt{32})(-9\sqrt{2}) = -144\sqrt{64}$
  $= -1,152$ (SCORE)

DAMATH the Polynomials

- $-xy^2$ takes $28y$ and lands on (3, 4) whose operation is subtraction (-)
  Computation: $(-xy^2) - (28y) = (-3)(4)^2 - (28)(4)$
  $= -160$ (SCORE)

- $78xy^2$ takes $6x$ and lands on (1,6) whose operation is division (÷)
  Computation: $78xy^2 \div 6x = 13y^1$
  $= 13(6)^1$
  $= 468$

B. GAMES FOR DAMATH COMPETITION

Grade 4	-	DAMATH the Whole Numbers
Grade 5	-	DAMATH the Decimals
Grade 6	-	DAMATH the Positive Fractions
Grade 7	-	DAMATH the Integers
Grade 8	-	DAMATH the Signed Fractions
Grade 9	-	DAMATH the Radicals
Grade 10	-	DAMATH the Polynomials

C. POSITION OF CHIPS

- DAMATH the Whole Numbers

0	1	2	3
4	5	6	7
8	9	10	11

- DAMATH the Decimals

0.1	0.2	0.3	0.4
0.5	0.6	0.7	0.8
0.9	1	1.1	1.2

- DAMATH the Positive Fractions

1/10	2/10	3/10	4/10
5/10	6/10	7/10	8/10
9/10	10/10	11/10	12/10

- DAMATH the Integers

-3	-1	0	2
-7	-5	4	6
-11	-9	8	10

- DAMATH the Signed Fractions

-3/10	-1/10	0/10	2/10
-7/10	-5/10	4/10	6/10
-11/10	-9/10	8/10	10/10

- DAMATH the Radicals

$-9\sqrt{2}$	$-\sqrt{8}$	$4\sqrt{18}$	$16\sqrt{32}$
$-49\sqrt{8}$	$-25\sqrt{18}$	$36\sqrt{32}$	$64\sqrt{2}$
$-121\sqrt{18}$	$-81\sqrt{32}$	$100\sqrt{2}$	$144\sqrt{8}$

- DAMATH the Polynomials

$-3x^2y$	$-xy^2$	$6x$	$10y$
$-21xy^2$	$-15x$	$28y$	$36x^2y$
$-55x$	$-45y$	$66x^2$	$78xy^2$

Scoresheet for DAMATH 4-9

DAMATH SCORESHEET					
RED			BLUE		
Name:			Name:		
School:			School:		
Move	*Score*	*Total*	*Move*	*Score*	*Total*
Player's Signature:			*Player's Signature:*		
Coach Signature:			*Coach Signature:*		
Win ( ) Loss ( )			Win ( ) Loss ( )		

Scoresheet for DAMATH 10

SAMPLE SCORESHEET FOR DAMATH THE POLYNOMIALS WITH ENTRIES

PAIR NUMBER: _____			
Player _____ School: _____ Division: _____ GRADE/YEAR LEVEL: _____		Player _____ School: _____ Division: _____ GRADE/YEAR LEVEL: _____	
MOVE	**SCORE**	**Move**	**SCORE**
$-3x^2y$ (0, 3)			
$(-xy^2) - 28y$ (3, 4)	-160		
$78xy^2 \div 6x$ (1, 6)	468		
etc.			
Remaining Chip: $36x^2y$ (2, 1)	144		
GRAND TOTAL SCORE	452	GRAND TOTAL SCORE	
[ ] win [ ] loss Players Signature:		[ ] win [ ] loss Players Signature:	
ARBITER: (Name & Signature) _____			