



Republic of the Philippines  
Department of Education  
REGION X- Northern Mindanao  
SCHOOLS DIVISION OF LANA O DEL NORTE

|                                 |      |     |
|---------------------------------|------|-----|
| DEPED LANA O DEL NORTE          |      |     |
| RECORDS SECTION CONTROL NO. 434 |      |     |
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| DATE                            | TIME | BY  |

13 August 2026

Division Memorandum  
No. 434 s. 2026

**DIVISION MATHEMATICS OLYMPICS  
SECONDARY LEVEL**

To: Public Schools District Supervisors/ District In-Charge  
Elementary and Secondary School Heads  
Select Elementary & Secondary Math Teachers  
This Division

1. The field is hereby informed that the Division Mathematics Olympics – Secondary will be held on **September 4, 2026; 8:30 AM** at **Abaga Central Elementary School, Abaga, Lanao del Norte**.
2. The Division Mathematics Olympics is a division-initiated mathematical adventure competition that integrates mathematical reasoning, physical exploration, teamwork, and authentic problem-solving in real-world contexts.
3. The competition is designed to promote higher-order thinking skills by engaging secondary learners in challenging mathematical tasks situated in meaningful and practical scenarios. The competition adopts a station-based mathematical adventure race, where teams navigate designated challenge stations to solve contextualized mathematical problems within a prescribed time limit.
4. This competition aims to
  - a. demonstrate proficiency in applying mathematical concepts and skills to solve authentic, real-world problems;
  - b. exhibit analytical, critical, and strategic thinking in solving complex mathematical challenges;
  - c. integrate concepts from various mathematical domains—**Number and Algebra, Measurement and Geometry, and Data and Probability**—to develop appropriate and justifiable solutions;
  - d. collaborate effectively as a team while making mathematical decisions under time constraints; and
  - e. communicate mathematical reasoning and justify solutions accurately during challenge validation.
5. Participants shall consist of **six (6) learners** representing **Key Stages 3 and 4**, with **one learner** from each grade level (**Grades 7, 8, 9, 10, 11, and 12**). The team may be composed of learners from: one



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(1) school within the district; or different schools within the district, provided that there is **one** representative from each grade level. Each district shall designate **one official coach** who shall accompany and supervise the team throughout the competition.

6. Participants are advised to bring a basic Casio calculator (mx-12b), ruler, tape measure, protractor, yarn, clean writing materials, school credentials (SF 10), parent consent forms, medical certificates, umbrella/caps, water, food pack (lunch) and snacks.

7. Station Facilitators/ In-charge are directed to prepare the necessary materials, including a digital clock/ timer and secure the scoresheets from the tabulators.

8. The **District Elimination** shall be conducted from **August 15 to 29, 2026**. The Public Schools District Supervisors (PSDSs)/District In-Charge, together with the District Mathematics Lead Principals, shall spearhead and oversee the conduct of the activity.

9. Contestants and coaches are advised to pre-register at this link: <https://tinyurl.com/ym2yudk5>. The deadline for pre-registration will be on **August 31, 2026**, to allow the Technical Working Group (TWG) time to prepare the contest materials. Strictly **NO WALK-IN CONTESTANTS**.

10. The host school shall provide venues for the different stations, water stations, rest areas, a sound system, internet access, emergency kits, and a safety officer.

11. The competition structure, technical working group, and sample stations are attached.

12. Moreover, prework activity will be on **September 2, 2026, 8:30a.m.** at Abaga CES. All facilitators and PMTs are directed to attend.

13. Meals, travel and other expenses of the contestants, coaches and technical working committees shall be charged to local funds/MOOE subject to the usual accounting and auditing rules and regulations.

14. Furthermore, a two-day service credit shall be granted to teaching personnel who are involved in the conduct of the said training per DepEd Order No. 53 s. 2003, upon submission of two copies of accomplished Form 48.

15. This memorandum serves as Travel Authority for all the participants of this training.

16. Immediate dissemination of and strict compliance with this Memorandum by all concerned is highly enjoined.

**EDWIN R. MARIBOJOC EdD, CESO V**  
Schools Division Superintendent

ATCH.: As stated

Reference:

To be indicated in the Perpetual Index  
under the following subjects

CURRICULUM

ASSESSMENT

COMPETATION

CID EPS/ lcoe

August 13, 2026



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## COMPETITION STRUCTURE AND MECHANICS

- 1. Composition of Teams** - Each participating district shall field **one (1) team** composed of **six (6) learners** representing **Key Stages 3 and 4**, with **one learner from each grade level (Grades 7, 8, 9, 10, 11, and 12)**. The team may be composed of learners from: one (1) school within the district; or different schools within the district, provided that there is **one representative from each grade level**. Each district shall designate **one official coach** who shall accompany and supervise the team throughout the competition
- 2. Registration and Competition Materials** - Upon registration, each team shall receive: a **team identification number** to be worn visibly throughout the competition; an **official route map** containing the locations of the ten (10) challenge stations; and other competition materials, if necessary. The route map shall also serve as the team's official record of completed stations and must be surrendered to the tabulation committee immediately after completing the race.
- 3. Competition Stations** - The competition consists of **ten (10) challenge stations**, each featuring a contextualized mathematical task aligned with the MATATAG Mathematics Curriculum. Each station is identified by a **yellow station marker** and is managed by designated Station Marshals. To regulate station occupancy: A **green flag** indicates that the station is available and teams may enter. A **red flag** indicates that the station is occupied. Teams must proceed to another available station and may return later. Boy Scouts or designated student assistants shall serve as flag bearers under the supervision of the Station Marshals.
- 4. Conduct of the Mathematical Adventure Race** - The competition officially begins upon the signal of the Olympics Master. Teams may start at **any available station** and complete the stations in any order. Each team must complete all ten (10) challenge stations. Only the registered team members may participate in solving the station challenges. Coaches, companions, and spectators are strictly prohibited from providing any form of assistance during the competition. Teams are expected to observe honesty, sportsmanship, and proper decorum throughout the event.
- 5. Challenge Validation and Attempts** - Each challenge shall be evaluated immediately by the assigned Station Marshal. If the submitted answer is correct, the station shall be marked as completed, and the team may proceed to another station. If the submitted answer is incorrect, the team may revise and resubmit its solution. Each team is allowed a maximum of five (5) submission attempts per station. Once the maximum number of attempts has been exhausted, the team's final answer shall be recorded, and the team must proceed to the next station. Each station shall have a time limit for completing the task. A digital timer will be provided at every station, which the teams must activate by themselves when they begin their task and deactivate once they finish or choose to discontinue.
- 6. Scoring and Time Recording** - After validating the team's final response, the Station Marshal shall record: the score earned; the number of attempts used; and the completion time. The validated results shall immediately be transmitted to the Tabulation Committee using the prescribed scoring sheet and scoring rubric.
- 7. Time Limit** - The maximum time allotted for completing all ten (10) stations is **one hundred eighty (180) minutes**. Teams that fail to complete all stations within the allotted time shall automatically end the race upon the official signal. Only validated answers submitted before the expiration of the time limit shall be included in the final scoring.
- 8. Ranking of Winners** - The overall ranking shall be determined based on the **highest cumulative score** obtained from all challenge stations. If two or more teams obtain identical total scores, the following tie-breaking criteria shall apply in order: Highest number of stations completed with

perfect scores; Fewest total attempts used across all stations; Fastest overall completion time; and A written tie-breaker mathematical challenge administered by the Technical Committee, if the tie still persists. The decision of the Board of Judges shall be final and irrevocable.

9. **Awards** - The following awards shall be conferred: **Champion ; First Runner-Up; Second Runner-Up, Third Runner-Up, and Fourth Runner-Up.** Winning teams shall receive **medals, certificates of recognition.** All participating learners, coaches, station marshals, and members of the technical working committee shall likewise receive certificates acknowledging their participation and contribution to the successful conduct of the competitionprescribed scoring sheet and scoring rubric.

### **Safety and Compliance**

- 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
- Station Masters present at each checkpoint
- Medical team on standby throughout the competition
- Safety Officer overseeing all activities

### **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**

- Overall Champion (Medal + Certificate)
- First Runner-up (Medal + Certificate)
- Second Runner-up (Medals + Certificates)
- Third Runner-up (Medals + Certificates)
- Fourth Runner-up (Medals + Certificates)



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# PARTICIPATING DISTRICTS

| District      | Participating Schools                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------|
| Bacolod       | Liangnan NHS, Binuni-Demologan NHS, Pagayawan IS, Bacolod IS, Kahayag IS                               |
| Baloi East    | Baloi NHS, Cadayonan IS, Datu Timbul IS, Sigayan IS, Abaga IS, Nangka IS                               |
| Baloi West    | Olango IS, Pacalundo IS,                                                                               |
| Baroy South   | Diosdado Yap Sr. National High School                                                                  |
| Baroy North   | Lanao del Norte NCHS                                                                                   |
| Kapt East     | Bansarvil NHS, Suso IS, Don Juan Diaz IS, Cathedral Falls IS                                           |
| Kapt Central  | Kapatagan NHS, Kalinaw-Kalilintad Integrated Peace School                                              |
| Kapt West     | Placida Mequiabas NHS, Carusa IS, Taguitic IS                                                          |
| Kauswagan     | Marcela T. Mabanta NHS, Kawit Oriental IS, Baraason IS, SD Mananggolo IS                               |
| Kolambugan    | Diego H. Patigayon NHS, Geronima Cabrera NHS, Manga IS                                                 |
| Lala Central  | Lala NHS                                                                                               |
| Lala          | Lala Proper ES, Glicerio Lim IS                                                                        |
| Linamon       | Linamon NHS, Samburon IS                                                                               |
| Magsaysay     | Magsaysay NHS, Sergio Cerujales NHS, Tambacon IS, Shiek Omar IS                                        |
| Maigo         | Maigo NHS, Atanacia Logronio IS, Mentrang IS                                                           |
| Matungao      | Abdul A. Liwalug NHS, Matampay IS                                                                      |
| Munai         | Munai NHS, Ramain IS, Munai IS, Pendulonan IS, Munai CIS                                               |
| Nunungan      | Nunungan NHS, Masibay IS                                                                               |
| Pantao Ragat  | Pantao Ragat Agro-Ind. HS                                                                              |
| Pantar        | Pantar National High School                                                                            |
| Poona Piagapo | Poonapiagapo NHS, Poonapiagapo CIS                                                                     |
| Salvador      | Salvador NHS, Madaya IS                                                                                |
| Sapad         | Panoloon NHS, Miguel Esmade IS, Sapad IS                                                               |
| SND West      | Andres Bersales, Sr. Nat'l. HS, Calube IS, Mabuhay IS, Mamagum IS, Mahayahay IS                        |
| SND East      | Sultan Ali Dimaporo Memorial IS,                                                                       |
| SND Central   | Sultan Naga Dimaporo MIS, Maguindanao IS, Pikalawag IS                                                 |
| Tagoloan      | Tagoloan NHS, Tagoloan IS, Kiasar IS, Tumble IS, Lininding IS                                          |
| Tangcal       | Tangcal NHS, Big Banisilon IS, Pelingkingan IS, Beruar IS                                              |
| Tubod East    | Arsenio A. Quibranza NHS, Teofila C. Quibranza NHS, LN Provincial Science and Technology HS, Dalama IS |
| Tubod West    | Rufo Dela Cruz IS, Pigcarangan IS                                                                      |

# DIVISION MATHEMATICS OLYMPICS

## Technical Working Group

| Committees          | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Materials Needed                                                                                                                                              | In-charge                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Registration</b> | <ul style="list-style-type: none"> <li>➤ Prepare attendance sheets</li> <li>➤ Screen SF10, certification from the School Head, parent's consent and medical certificates</li> <li>➤ Prepare the Certificates of Appearance</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Attendance sheet</li> <li>• Official list of contestants</li> <li>• Envelops for SF10, etc</li> <li>• CAs</li> </ul> | <b>Emily G. Mag-alasin,</b><br>Kalinaw Kalilintad<br>Integrated Peac School<br><br><b>Rowell R. Llaca,</b> Lanao del Norte National Comprehensive High School<br><br><b>Rosario G. Ramo,</b><br>Mamagum IS |
| <b>Tabulators</b>   | <ul style="list-style-type: none"> <li>➤ Develop score sheets for all stations, ensuring both digital and printed formats are available.</li> <li>➤ Create a consolidated score sheet, also in digital and printed formats.</li> <li>➤ Implement a live score projection system in the hall for real-time updates.</li> <li>➤ Ensure the time recorder accurately documents the start and end times for each station or event.</li> <li>➤ Submit the final and official results with EPS in Math.</li> </ul>                                                                                                                                 | <ul style="list-style-type: none"> <li>• Projector with screen</li> <li>• Printer</li> <li>• Bondpaper</li> <li>• Envelops for score sheets</li> </ul>        | <b>Emily G. Mag-alasin,</b><br>Kalinaw Kalilintad<br>Integrated Peac School<br><br><b>Rowell R. Llaca,</b> Lanao del Norte National Comprehensive High School<br><br><b>Rosario G. Ramo,</b><br>Mamagum IS |
| <b>Awards</b>       | <ul style="list-style-type: none"> <li>➤ Prepare and distribute medals and printed certificates of recognition for winning contestants and their coaches.</li> <li>➤ Ensure the award categories:</li> <li>➤ <b>Elimination Round:</b> Top 5 teams (medal + certificate)</li> <li>➤ <b>Final Round:</b> *Overall champion (medal + certificate)<br/>                         *First runner-up (medal + certificate)<br/>                         *Second runner-up (medal + certificate)<br/>                         *Third runner-up (medal + certificate)<br/>                         *Fourth runner-up (medal + certificate)</li> </ul> | <ul style="list-style-type: none"> <li>• Medals</li> <li>• Certificates of recognition</li> <li>• Printer</li> <li>• envelops</li> </ul>                      | <b>Ingrid N. Penaflor,</b><br>Rupagan ES<br><br><b>Sarah Mapandi,</b><br>Kolambugan CES<br><br><b>Naima Egue,</b> Matampay IS                                                                              |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Program</b>                            | <ul style="list-style-type: none"> <li>➤ Create a detailed program flow for the opening ceremony and awarding ceremony.</li> <li>➤ Distribute printed programs and invitations to the SDS, ASDS and CID Chief.</li> <li>➤ Masters of Ceremonies during the opening and closing program</li> </ul>                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Bond paper</li> <li>• Flow of the program</li> </ul>                                                                                                                                                         | <b>Mirasol Fe Salarda, Lala NHS</b><br><br><b>Norjannah Untong, Sultan Palao Ali ES</b>                                                                                     |
| <b>Prepare Station Markers/ Flag lets</b> | <ul style="list-style-type: none"> <li>➤ Design and produce clear signages for all stations, including the clinic, registration area, screening area, and resting areas.</li> <li>➤ Layout and print tarpaulin for the activity</li> <li>➤ Prepare and install control signals in each station: 10 red flags (station is full) and 10 green flags (station is empty).</li> <li>➤ Prepare and place 10 station markers.</li> <li>➤ Assign 10 Boy Scouts from Abaga CES to operate the flag control signals.</li> </ul> | <ul style="list-style-type: none"> <li>• 10 red &amp; 10 green flag lets</li> <li>• Tarpaulin in each station</li> <li>• 10 gold flags as station markers</li> <li>• 10 boy scouts</li> <li>• Tarp for clinic, registration, resting areas</li> </ul> | <b>Josephine Cadallo, Patudan ES</b><br><br><b>Susan O. Barba, Abaga Central Elementary School</b><br><br><b>Reynaldo Arcillas, Sixto Maghanoy CES</b>                      |
| <b>Documentation</b>                      | <ul style="list-style-type: none"> <li>➤ Station facilitators shall capture all activities in each station and transmit to the tabulator committee.</li> <li>➤ Prepare a detailed completion report summarizing the event.</li> <li>➤ Keep the team registration forms, SF10, medical and consent forms, competition worksheets and final presentation materials.</li> </ul>                                                                                                                                          | <ul style="list-style-type: none"> <li>• Envelops for the final results</li> <li>• Compilation of pictures</li> </ul>                                                                                                                                 | <b>Station Marshalls/Facilitators</b><br><br><b>Emily G. Mag-alasin, Kapatagan East CES</b><br><br><b>Rowell R. Llaca, LNNCHS</b><br><br><b>Rosario G. Ramo, Mamagum IS</b> |
| <b>Route Map</b>                          | <ul style="list-style-type: none"> <li>➤ Design and print 31 copies of the number race map.</li> <li>➤ Clearly indicate the locations of the 10 stations, registration area, water stations, resting area, and clinic area on the race map.</li> <li>➤ Enclose each printed race map in a transparent protective envelope.</li> </ul>                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• Photo paper</li> <li>• 31 transparent envelopes</li> </ul>                                                                                                                                                   | <b>Genvie T. Sayon, Kapatagan National High School</b><br><br><b>Edward Bolangis, A. Logronio IS</b>                                                                        |
| <b>Screening</b>                          | <ul style="list-style-type: none"> <li>➤ Inspect each team's calculators, measuring tools, and other permitted materials (bond paper, pens, pencils).</li> <li>➤ Confirm that each team is equipped with umbrellas or caps, and adequate food provisions.</li> </ul>                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Plastic containers for the digital devices</li> <li>•</li> </ul>                                                                                                                                             | <b>Darryl Dimapitan, Salvador</b><br><br><b>Norjannah Untong, Sultan Palao Ali ES</b>                                                                                       |

|                  |                                                                                                                                                             |                                                                   |                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|
|                  |                                                                                                                                                             |                                                                   |                 |
| <b>First Aid</b> | <ul style="list-style-type: none"> <li>➤ Prepare medical kits</li> <li>➤ Establish medical emergency response protocols for incident management.</li> </ul> | <ul style="list-style-type: none"> <li>• Emergency kit</li> </ul> | Designate nurse |

#### Rubric for Scoring for Written Outputs

| Criteria                                    | Max Point | Excellent                                                                                                                         | Good                                                                                                   | Fair                                                                                                          | Poor                                                                                 |
|---------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Content Thematic Relevance and Organization | 8         | <b>8 - 7 pts</b><br>Comprehensive, logical, and strongly aligned with theme<br><br>Well-structured, follows all format guidelines | <b>6 - 5 pts</b><br>Mostly clear and relevant, minor gaps<br><br>Mostly organized, minor format issues | <b>4 - 3 pts</b><br>Limited depth, some inconsistencies<br><br>Some disorganization, noticeable format errors | <b>2 pts - 1 pt</b><br>Incomplete or off-topic<br><br>Poor structure, ignores format |
| Feasibility of Proposed Solution            | 6         | <b>6 pts</b><br>Highly practical, based on valid scientific, mathematical, technological principles                               | <b>5 - 4 pts</b><br>Generally feasible, minor assumptions unclear                                      | <b>3 - 2 pts</b><br>Limited feasibility, weak assumptions                                                     | <b>1 pt</b><br>Impractical or unsupported                                            |
| Relevance of Data Used                      | 6         | <b>6 pts</b><br>Uses accurate, credible, and well-integrated data                                                                 | <b>5 - 4 pts</b><br>Mostly relevant and credible data                                                  | <b>3 - 2 pts</b><br>Some irrelevant or weak sources                                                           | <b>1 pt</b><br>Data inaccurate or missing                                            |
| <b>Total</b>                                | <b>20</b> |                                                                                                                                   |                                                                                                        |                                                                                                               |                                                                                      |

#### Rubric for Scoring for Oral Presentation / Argument

| Criteria                              | Max Point | Excellent                                                                                                                                                               | Good                                                                                                           | Fair                                                                                                                     | Poor                                                                                                                        |
|---------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Delivery/ Discussion of Arguments     | 8         | <b>8 - 7 pts</b><br>Arguments are clear, logical, and strongly supported by scientific, mathematical, and technological principles; delivery is confident and engaging. | <b>6 - 5 pts</b><br>Arguments are mostly clear and supported by valid assumptions; delivery is generally good. | <b>4 - 3 pts</b><br>Arguments lack depth or clarity; limited support from valid assumptions; delivery needs improvement. | <b>2 pts - 1 pt</b><br>Arguments are weak, unclear, or unsupported; delivery is ineffective.                                |
| Content Presentation and Organization | 5         | <b>5 pts</b><br>Demonstrates full knowledge by presenting details with explanations and elaboration                                                                     | <b>4 pts</b><br>At ease with presenting details without much elaboration                                       | <b>3 pts</b><br>Uncomfortable with presenting information and is able to present details but without elaboration         | <b>2 pts - 1 pt</b><br>Does not have a grasp of details during the presentation, cannot elaborate the information presented |
| Ability to Answer Questions           | 7         | <b>7 pts</b><br>Accurate, confident, and well-supported answers                                                                                                         | <b>6 - 5 pts</b><br>Mostly accurate, minor hesitation                                                          | <b>4 - 3 pts</b><br>Limited accuracy, vague answers                                                                      | <b>2 pts - 1 pt</b><br>Incorrect or no answers                                                                              |
| <b>Total</b>                          | <b>20</b> |                                                                                                                                                                         |                                                                                                                |                                                                                                                          |                                                                                                                             |

Note: Oral presentation will be based on the written output.

| ACCURACY (60%)                                  |    | SPEED (40%)                                                                                                            |    | Modified scoring |
|-------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------|----|------------------|
| Obtained the correct answer in 1 trial          | 60 | Submitted the correct answer in the shortest time                                                                      | 40 | 40               |
| Obtained the correct answer in 2 trials         | 57 | <i>The score will depend on the rank of the participants/ team based on the time of submission of correct answers.</i> | 38 | 39               |
| Obtained the correct answer in 3 trials         | 54 |                                                                                                                        | 36 | 38               |
| Obtained the correct answer in 4 trials         | 51 |                                                                                                                        | 34 | 37               |
| Obtained the correct answer in 5 trials         | 48 |                                                                                                                        |    | 36               |
|                                                 |    |                                                                                                                        |    | 35               |
|                                                 |    |                                                                                                                        |    | 34               |
|                                                 |    |                                                                                                                        |    | 33               |
|                                                 |    |                                                                                                                        |    | 32               |
|                                                 |    |                                                                                                                        |    | 31               |
| Unable to obtain the correct answer in 5 trials |    | 0                                                                                                                      |    | 0                |

**Scoring Guide for Accuracy in**  
**Station 6: Measure without Climbing**  
**Station 7: Trapezodal Lot**  
**Station 8: Running LED Light**  
**Station 9: Float the Load**

| Points Earned | Score |
|---------------|-------|
| 20            | 60    |
| 18-19         | 57    |
| 16-17         | 54    |
| 14-15         | 51    |
| 12-13         | 48    |
| 10-11         | 45    |
| 8-9           | 42    |
| 6-7           | 39    |
| 4-5           | 36    |
| 1-3           | 33    |
| 0             | 0     |

## STATION CHALLENGES

### 1. Easy Round Stations

| Station                        | Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Materials needed                                                                                                                                                       | Time Allotment | Facilitators                                                                                                                                                   |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1<br><br>Sudoku                | <ol style="list-style-type: none"> <li>One of the players will do the task in this station.</li> <li>The players place a number into each cell of the diagram so that each row across, each column down, and each block within the larger diagram (there are 9 of these) will contain every number from 1 through 9.</li> <li>The player will answer one average puzzle within 5 minutes. <i>(5 teams at a time)</i></li> </ol>                                                        | <ul style="list-style-type: none"> <li>puzzle with instruction</li> <li>Scoring/marking scheme based on the correct answer</li> <li>Stopwatch/digital clock</li> </ul> | 5 min          | <b>Josephine Cadallo,</b><br>Patudan ES<br><br><b>Marilyn Sienes, M.</b><br>Esmade IS<br><br><b>Llyod Alquitela,</b><br>Magsaysay NHS                          |
| 2<br><br>Quadratic Dance       | <ol style="list-style-type: none"> <li>The team will provided with set of quadratic functions and music.</li> <li>They will be given 5 minutes to practice and perform.</li> </ol>                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Set of quadratic functions</li> <li>music</li> </ul>                                                                            | 15 min         | <b>Elizabeth Lambojon,</b><br>Lala NHS<br><br><b>Marichu Licanda,</b><br>Liangon NHS<br><br><b>Gemvie Sayon,</b><br>Kapatagan NHS                              |
| 3<br><br>DaMath                | <ol style="list-style-type: none"> <li>Integer DaMath will be used for this station.</li> <li>Two players from the team will play Integer DaMath for a maximum of 10 minutes.</li> <li>The objective is to earn the highest possible score within the allotted time.</li> <li>The time used by each team will not be recorded for scoring purposes.</li> <li>The player with the higher score at the end of the 10-minute period wins the round. <i>(8 teams at a time)</i></li> </ol> | <ul style="list-style-type: none"> <li>Contest material with instruction</li> <li>DaMath board</li> <li>Chips for integer DaMath</li> </ul>                            | 10 min         | <b>Ian Luy, Marcela</b><br>Mabanta NHS<br><br><b>Cheryl Reyes, LNNCHS</b><br><br><b>Emma Taoc,</b> Liangan NHS<br><br><b>Juan Alimasag, Jr,</b><br>Linamon NHS |
| 4<br><br>Polynomial (billiard) | <ol style="list-style-type: none"> <li>Two players from the team play compete in this station</li> <li>Players shoot the balls into the pockets. When a ball lands on a cell, substitute the ball's value into</li> </ol>                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Polynomial table</li> <li>Cue balls</li> <li>Stick</li> </ul>                                                                   | 15 min         | <b>Raffy Villaria,</b> Dalama IS<br><br><b>Jonathan Bienes, A.</b><br>Bersales NHS                                                                             |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                    |        |                                                                                                              |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------|
|                                               | <p>the piecewise polynomial function written on that cell.</p> <p>3. Once the ball is pocketed, the player solves the corresponding function. The result becomes the team's score for that ball. An incorrect solution constitutes a foul.</p> <p>4. The game lasts for 15 minutes. The team with the highest total score at the end of the game wins.<br/>(2 teams at a time)</p>                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Score sheets</li> <li>• Written mechanics</li> </ul>                                                                                                      |        | Jefferson Cabahug,<br>Magsaysay NHS                                                                          |
| <p>5</p> <p><b>Crypto Quote Challenge</b></p> | <p><i>The Cryptoquote Challenge is a puzzle where you decipher a quote that has been encrypted with a simple substitution cipher. Each letter in the original quote is consistently replaced by a different letter throughout the entire puzzle. Your goal is to figure out the mapping between the encrypted letters and the original letters to reveal the quote.</i></p> <p>Each distinct letter in the original quote has been substituted with another letter from the alphabet.</p> <p>Decode the message.</p> <p>Tips: The core mechanic is a monoalphabetic substitution cipher. This means each letter of the alphabet is replaced by one other letter, and this substitution remains constant.</p> <p>(5 teams at a time)</p> | <ul style="list-style-type: none"> <li>• Written instruction for the contestants</li> <li>• number of number sentences in tarp/Manila paper</li> <li>• score sheet</li> <li>• stopwatch</li> </ul> | 10 min | <p>Kween Liz M. Tangian,<br/>Tubod CES</p> <p>Ivy S. Apiag, Lala NHS</p> <p>Baby Marie Apas,<br/>LNPSTHS</p> |

## 2. Average Round



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| Station                        | Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Materials needed                                                                                                                                                               | Time Allotment | Facilitators                                                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6<br>Measure Without Climbing! | <ol style="list-style-type: none"> <li>1. Your team is challenged to determine the height of the building or statue using only the measuring tools from your kit</li> <li>2. Use your measurements and an appropriate mathematical strategy to estimate the height of the building/statue.</li> <li>3. Record all measurements and calculations and defend your answer.</li> </ol>                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Contest mechanics</li> <li>• 5 sets of Domino</li> <li>• stopwatch</li> </ul>                                                         | 15 min         | <b>Hermit D. Belano,</b><br>Bansarvil NHS<br><br><b>Jeffrey Fabian</b><br><b>Barrientos, G.</b><br>Cabrera NHS<br><br><b>Jeralyn B. Soria,</b> Tangcal NHS |
| 7<br>Trapezoidal Lot           | <ol style="list-style-type: none"> <li>1. The team will tie the yarn to markers on the trees to form a trapezoidal shape.</li> <li>2. The team will then calculate the area of the trapezoid they have formed.</li> <li>3. The team must strategize how to solve the area using the materials available in their kit</li> <li>4. The team will present their answer to the facilitator</li> </ol>                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Written instruction for the contestants</li> <li>• Score sheet</li> <li>• Stopwatch</li> <li>• Yarn to be used by the team</li> </ul> | 15 min         | <b>Samsidah Gubaten,</b><br>Pantar NHS<br><br><b>John Anthony Lomosad,</b><br>AAQNHS<br><br><b>Glenn Mahinay,</b> Lala NHS                                 |
| 8<br>Running LED Light         | <ol style="list-style-type: none"> <li>1. The players will measure the perimeter of the area where the LED light will be placed, using the materials available in their kit (e.g., yarn, a ruler, a measuring tape, etc.).</li> <li>2. The team will determine the cost of placing a running LED light on the edge of the given area. (The cost of the LED light is provided.).</li> <li>3. The team will calculate the amount needed based on the total perimeter and the provided price</li> <li>4. The team will present their answer to the facilitators..</li> </ol> | <ul style="list-style-type: none"> <li>• Challenges with written instructions</li> <li>• Score sheet</li> <li>• Rubrics for scoring</li> <li>•</li> </ul>                      | 15 min         | <b>Rosano Rosacia,</b><br>LNNCHS<br><br><b>Edward A. Bolangis, A.</b><br>Logronio IS<br><br><b>Almera B. Mejjorada,</b><br>LNPSTHS                         |
| 9<br>Float the Load            | <ol style="list-style-type: none"> <li>1. The team shall construct an object using aluminum foil</li> <li>2. Using the constructed object and the available coins, the team shall transport as many coins as possible from the designated starting point to the assigned destination.</li> </ol>                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Aluminum foil</li> <li>• Coins</li> <li>• Basin</li> <li>• Rubrics for scoring</li> </ul>                                             | 15 min         | <b>Jocelyn Manosa,</b><br>LNPSTHS<br><br><b>Rico Viernes,</b><br>Kapatagan NHS<br><br><b>Cherry Joy V. Ebo,</b><br>LNNCHS                                  |

### 3. Difficult Round



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| Station                 | Instruction                                                                                                                                                                                                                                                                             | Materials needed                                                                                            | Time Allotment | Facilitators                                                                                                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| 10<br>Project<br>ENER-G | <ol style="list-style-type: none"> <li>Each team will be given a reserve amount of fuel for emergency needs.</li> <li>They are going to present an Allocation plan and justify their answers to the panel of judges.</li> <li>The station can accommodate 2 teams at a time.</li> </ol> | <ul style="list-style-type: none"> <li>Written mechanics</li> <li>Stopwatch</li> <li>Score sheet</li> </ul> | 20 min         | <b>Jestoni Jueves, Bansarvil NHS</b><br><br><b>Lorraine C. Olavides-Edrea, CID</b><br><br><b>Sonia Gumilao, Maigo NHS</b> |