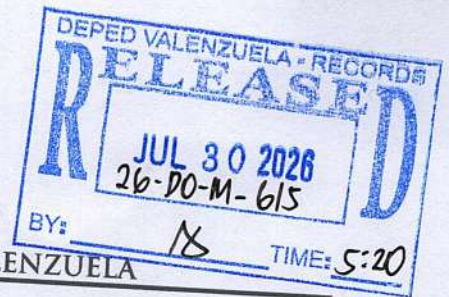




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Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION



Office of the Schools Division Superintendent

SCHOOLS DIVISION OFFICE OF CITY OF VALENZUELA

DIVISION MEMORANDUM
No. 0618 s. 2026

2026 DISTRICT AND DIVISION STEMazing RACE (SECONDARY)

To: OIC, Assistant Schools Division Superintendent
Chief Education Supervisor - CID
Education Program Supervisors & Public Schools District Supervisor
Secondary School Heads
Division SHS Focal
Public and Private Schools

1. For the information and guidance of all concerned, this Office through the Curriculum Implementation Division, announces the conduct of the above-captioned activity.

2. The activity aims to:

- To apply science, technology, engineering, and mathematics thinking skills in solving problems with local, national, and global impacts.
- To enable participants to become problem solvers by addressing social, scientific, and environmental issues through the application of 21st century skills.

3. The schedule of activities is as follows:

Activity	Date	Venue
District STEMazing Race	September 3, 2026	Punturin Senior High School
Division STEMazing Race	September 11, 2026	Valenzuela City Schools of Mathematics and Science

4. The first- and second-place winners from Congressional Districts I and II shall advance to the Division Level, which will be held on September 11, 2026.

5. Attached are the guidelines and the list of members of the Program Management Team who shall facilitate the aforementioned activity. Likewise, Principal Consultants in Science are invited to participate in the said activity.

6. Expenses relative to the conduct of this activity shall be charged against school canteen funds or other local school funds, subject to the usual auditing and accounting rules and regulations.
7. Immediate dissemination of this Memorandum is desired

NOEL D. BAGANO
Schools Division Superintendent

Encl/s: as Stated

References: None

To be indicated in the Perpetual Index
under the following subjects;

COMPETITION
LEARNERS
SCIENCE
STEM

CID/lmq 2026 DISTRICT AND DIVISION STEMazing Race (secondary)
July 28,2026

DISTRICT STEMazing RACE

DATE: SEPTEMBER 3, 2026

VENUE: PUNTURIN SHS

PROGRAM MANAGEMENT TEAM

Asssignment	Name	School
Chairman/Program	Lanie Borboran	Punturin SHS
Co- Chairman/Tabulator	Chealand Dela Cruz	Malinta NHS (SHS)
Documenter/Narrative Report	Julie Sarmiento	VP Trinidad NHS (SHS)
Certificates	Felines Vijandre	Wawang Pulo
Master of Ceremony	Angelie Rose S. Gatus	Sitero Francisco NHS
Accomodation	Antoinette Vidania And Sheryn Zuñiga	Punturin SHS
Registration	John Paul Hallasgo	
Physical Plan /Decor	Gilbert O. Miralpes	

DIVISION STEMazing RACE

DATE: SEPTEMBER 11, 2026

VENUE: VALENZUELA CITY SCHOOL OF MATHEMATICS AND SCIENCE

PROGRAM MANAGEMENT TEAM

Asssignment	Name	School
Chairman/Tabulator of Results	Chealand Dela Cruz	Malinta NHS (SHS)
Co- Chairman	Mary Ann V. Dayrit	ValMaSci
Narrative Report	Merlyn V. Gamboa	
Certificates	Felines Vijandre	Wawang Pulo
Master of Ceremony	Angelie Rose S. Gatus	Sitero Francisco NHS
Accomodation	Zacarie Jo Del Rosario and Aileen Lois C. Dogma	ValMaSci
Physical Plan	Romarico Ramos Jr.	
Registration	Lemuel Abanto and Manolito B. Chua	Malinta NHS (SHS)
Program /Invitation	Lerrie P. Munsod	
Documenter	Marivic S. Ferrer and Mary Ann Orsua	Parada NHS Paso De Blas NHS

DISTRICT AND DIVISION FACILITATORS per Station (Department Heads)

STATION	NAME	SCHOOL
1	Joel Managbanag	JEDSNHS
	Marivic Pangan	Gen. T. De Leon NHS
	Emily Gabriel	Malinta NHS
2	Ryan Joseph H. Espiritu	Veinte Reales NHS
	Marissa P. Calixto	Dalandanan NHS
	Maria Agnes Pascual	Wawang Pulo NHS
3	Juanito D. Bartolome Jr.	Canumay East NHS
	Marilou Justimbaste	Bignay NHS
	Renerosa G. Camay	Valenzuela NHS
4	Angelo Dela Cruz	Lawang Bato NHS
	Jesusa Del Rosario	Sitero Francisco NHS
	Celeste S. Ferrer	Caruhatan NHS
5	Sally R. Juanillas	Canumay West NHS
	Ritchel Galo	Mapulang Lupa NHS
	Ma. Carmelita Jacinto	Malanday NHS
6- Slide Deck Making w/one problem Scenario (60 min)	Anicia Rivera	Arkong Bato NHS
	Andrian Matus	Maysan NHS
	Helen Umali	V.P. Trinidad NHS
7 Oral Presentation (3min) Q&A (7min)	Mark Embuido	Bagbaguin NHS
	Jai Rabbai Eugenio	Lingunan NHS
	Andrian Matus	Maysan NHS



STEMazing

(A Showcase of Science, Technological, and Mathematical Outputs)

KEY STAGE	Key Stage 2: Grades 4 to 6 Key Stage 3: Grades 7 to 10 Key Stage 4: Grades 11 to 12
NO. OF PARTICIPANT/S PER REGION	STEMazing for Elementary (Grades 4 to 6): 2 learners per team (choose participants from Key Stage 2; only one learner per grade level is allowed , e.g., the team is composed of 1 Grade 4 and 1 Grade 6 learner) 1 teacher-coach STEMazing for Secondary (Grades 7 to 12): 2 learners per team (choose participants from Key Stages 3 and 4; only one learner per grade level is allowed , e.g., the team is composed of 1 Grade 8 and Grade 10 learners, or 1 Grade 11 and 1 Grade 12 learners) 1 teacher-coach
TIME ALLOTMENT	Elementary – 180 minutes High School – 150 minutes
PERFORMANCE STANDARD	The learners: • obtain scientific and technological information from varied sources about global issues that have an impact on the country. • acquire scientific attitudes that will allow them to innovate and/or create products useful to the community or country. • process information to get relevant data for a problem at hand • 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, communication skills, creativity, problem solving, collaboration, information, digital literacy, and technology and engineering skills.

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)	
CAREER PATHWAYS	Science, Technology, Engineering, and Mathematics (STEM)	
DESCRIPTION	STEMazing is an NFOT contest that challenges learner-participants to seamlessly combine physical exploration with scientific research and mathematical investigation. They engage in problem-solving activities within real-world contexts to demonstrate their mastery of STEM concepts.	
TECHNICAL SPECIFICATIONS		
A. MATERIALS, TOOLS, AND EQUIPMENT	To be provided by learner-participants, if any: • ICT Tools such as laptops and chargers if necessary • Extension cords, if necessary • Personal pocket Wi-Fi	To be provided by the Technical Committee: • Team identification badges • Station markers and QR code printouts • Scoring sheets and evaluation forms • Data collection forms • Emergency and first aid equipment • Maps and route guides • Activity Tables • Digital Timers • Science Laboratory Tools/Equipment / Materials • Calculator • Measuring tools (ruler, tape measure, protractor, etc.) • Writing materials (Ballpen, Pencil and Bond Paper) • Digital device for QR codes (if allowed by organizers) • Safety equipment (as specified in orientation)
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 • Holding Area (for teacher-coaches/learner-participants/other audience)	

C. CRITERIA FOR JUDGING

Category	Maximum Points per Category
Easy	30
Average	30
Difficult	40
TOTAL	100

- The total cumulative number of points shall always be 100 points.
- The points per station shall be determined by the organizer based on the nature of the task, provided that the total points and the points for any station do not exceed the maximum points allocated for its respective category.
- Teams shall receive points based on the scoring rubrics.
- The total time to complete the challenges shall be computed but will not affect the score of each team for each station's task.
- In the event of a tie, the judges shall determine the winner based on the total completion time. The team that finishes in the shortest time shall be declared the winner.
- In the event of a tie in both score and time, the judges shall administer a do-or-die question to determine the winner.
- For station/s with written output and oral presentation, and slide deck refer to the criteria below:

Written Output:

Criteria	Score
Content Thematic Relevance and Organization	8
Feasibility of the proposed solution/output (Based on scientific, mathematical, technological, and other valid assumptions)	6
Relevance of data used	6
Total	20

Oral Presentation:

Criteria	Score
Discussion/Arguments/Delivery (Based on scientific, mathematical, technological, and other valid assumptions, the feasibility of the proposed solution)	8
Content / Organization	5
Ability to answer the questions	7
Total	20

Slide Deck Presentation (for High School only):

Criteria	Score
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Problem Analysis and Engineering Design Process	4
Engineering Design Solution	6
Scientific and Mathematical Justification	6
Feasibility and Practicality	4
Total	20

- Written output, oral presentation and slide deck activities shall be placed under the difficult categories.
- Refer to the scoring rubric for reference.

MECHANICS

A. Pre-Competition Requirements/Rules

- Teams must complete registration, **either online or offline**, before the event.
- Submission of Regional Team Registration Forms, including the following:
 - Region number and name
 - Division/Schools Division Office
 - Name of Regional Science and Mathematics Supervisor
 - Name of Division Science and Mathematics Supervisor
- Team Composition Details:
 - Official team name representing the region
 - Grade levels of each member
 - Certified true copy of school records proving grade levels
 - Regional team coach/adviser information with designation
 - Replacement of participants due to valid reasons, such as but not limited to sickness, is allowed, provided that it is duly endorsed by the regional director.
- Drawing of lots for the number assignments of participants will be done in the presence of all participants and coaches or respective representatives prior to the start of the competition.
- An online orientation session will be conducted before the competition proper.
 - ☐ Orientation session shall cover:
 - Competition mechanics
 - Safety protocols
 - Equipment usage
 - Scoring system
 - Emergency procedures
 - ☐ Q&A portion
- Equipment and Documentation Verification
- Pre-Event Documentation Checklist:
 - Individual Participant Form with parent consent
 - Medical Certificate
 - Equipment Checklist if any
- Equipment Inspection:
 - Calculator
 - Measuring tools
 - Writing materials
 - Digital devices (if allowed)

- Safety equipment
- All teacher-coaches will accompany participants in the venue, but not in the contest venue. They cannot assist the participants during the competition.
- The event administrator will signal the start of the event. Only the event facilitators, Program Management Team (PMT), judges, official photographers, and learner-participants are allowed to be at the contest venue.
- The event facilitator, members of the Program Management Team, and Board of Judges shall be in the venue at least one (1) hour before the event, while the learner-participants, teacher-coaches, and other audiences must be in the venue at least thirty (30) minutes before the competition. Late participants may be permitted to join upon thorough assessment of their reasons by the PMT.
- Briefing of the learner-participants shall be conducted at least thirty (30) minutes before the start of the event. All questions, clarifications, and points of order shall be entertained during the briefing.
- Learner-participants shall wear plain white T-shirt and comfortable pants and rubber shoes or sneakers with no school/SDO/RO identification.

B. During Event / Competition Structure

B.1 Elementary

- Teams navigate shall through multiple stations.
- The total number of stations shall be a minimum of seven (7) and a maximum of ten (10). Moreover, the difficult category must have the fewest number of stations. The majority of the challenges shall focus on Mathematics competencies. A sample distribution of stations per category is shown below:

Sample Distribution of the Number of Stations per Category

Category	Number of Stations		
Easy	8	9	10
Average	3	4	4
Difficult	3	3	4

- The number of stations per category shall be flexible, allowing the organizer to determine the distribution based on factors such as the nature of challenges, availability of materials and equipment, and the contest venue.
- Sample distribution of stations and points is shown below:

Sample 1

Category	Station	Maximum Points
Easy	1	10
	2	10
	3	10
Average	4	15

Sample 2

Category	Station	Maximum Points
Easy	1	5
	2	5
	3	10
	4	10

	5	15
Difficult	7	20
	8	20
Total		100

Sample 3

Category	Station	Maximum Points
Easy	1	30
Average	2	30
Difficult	3	40
Total		100

Average	5	10
	6	10
	7	10
Difficult	9	20
	10	20
Total		100

- Challenges include:
 - Application of scientific and mathematical concepts and analysis of real-world data,
 - Developing scientific and mathematical solutions and solving problems, and
 - Presenting solutions and findings.
- Each team shall start at station 1. The next team will proceed after the time interval set by the PMT, based on the nature of the task.
- If the venue and resources can accommodate all teams simultaneously, they may start at the same time. However, if space or materials are limited, teams will complete the tasks in batches. Teams waiting for their turn will remain in the designated waiting areas until called.
- Each station will be equipped with sufficient materials and equipment to accommodate at least five teams simultaneously.
- Each station shall have a time limit for completing the task, which shall be determined by the organizer. 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.
- For challenges involving oral presentation, each team presentation shall be limited to two (2) minutes only, and followed by a five (5)-minute Question and Answer (Q&A) session.
 - All judges may ask questions, provided the Q&A remains within the allocated five-minute timeframe.
 - Each team must complete their presentation within two (2) minutes. For every additional minute beyond the allotted time, one (1) point will be deducted from the team's score for that station.
 - A timer shall be assigned for the task.
- Participants are not permitted to return to any previous station they chose to discontinue, even if they still have remaining time. Returning to discontinued stations will result in disqualification from the contest.
- Before the participants are called for the oral presentation, they will stay in a designated holding area.
- The total maximum time allotted to complete the whole STEMazing challenge is 180 minutes.

- Contest facilitators at each station will validate the team's answer or output.
- Any form of communication between the participants and other parties (e.g., coach, parents, classmates, teachers, etc.) shall warrant automatic disqualification from the competition.
- At the end of the competition, the group with the highest cumulative score will be declared the overall champion. In case of a tie, a tie-breaker question will be given.
- The decision of the judges shall be final and irrevocable.

B.2 High School

- Teams navigate shall through multiple stations.
- There shall be seven (7) stations for STEMazing High School.
- Stations 1–5 shall focus on the demonstration of skills and learning competencies in Science and Mathematics, while Stations 6 and 7 shall assess participants' ability to integrate and apply these learning competencies through engineering design process, innovation, communication, and collaborative problem solving in response to a real-world STEM challenge.
- Majority of the challenges shall focus on Science competencies.
- The number of stations per category shall be flexible, allowing the organizer to determine the distribution based on factors such as the nature of challenges, availability of materials and equipment, and the contest venue.
- Sample distribution of stations and points is shown below:

Category	Station	Maximum Points
Easy	1	10
	2	10
	3	10
Average	4	15
	5	15
Difficult	6	20
	7	20
TOTAL		100

- Challenges shall include:
 - ✓ Application of scientific and mathematical concepts and analysis of real-world data,
 - ✓ Developing scientific and mathematical solutions and solving problems through Engineering Design Process (EDP), and
 - ✓ Presenting solutions and findings.
- Each team shall start at station 1. The next team will proceed after the time interval set by the Technical Working Group (TWG), based on the nature of the task.
- If the venue and resources can accommodate all teams simultaneously, they may start at the same time. However, if space or materials are limited, teams will complete the tasks in batches. Teams waiting for their turn will remain in the designated waiting areas until called.
- Each station will be equipped with sufficient materials and equipment to accommodate at least five teams simultaneously.

- Each station shall have a time limit for completing the task, which shall be determined by the organizer. 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.
- For Station 6 (Slide Deck Making), only one problem scenario shall be given to all participants. Moreover, the station shall cover a maximum of sixty (60) minutes.
- For Station 7 (Oral Presentation), each team presentation shall be limited to three (3) minutes followed by a maximum of seven (7)-minute Question and Answer (Q&A) session.
- All judges may ask questions, provided the Q&A remains within the allocated seven (7)-minute timeframe.
- Each team must complete their presentation within three (3) minutes. For every additional minute beyond the allotted time, one (1) point will be deducted from the team's score for that station.
- A timer shall be assigned for the task.
- Participants are not permitted to return to any previous station they chose to discontinue, even if they still have remaining time. Returning to discontinued stations will result in disqualification from the contest.
- The total maximum time allotted to complete the whole STEMazing challenge is 150 minutes.
- Checkpoint marshal/s at each station shall collect the team's answer or output.
- Any form of communication between the participants and other parties (e.g., coach, parents, classmates, teachers, etc.) shall warrant automatic disqualification from the competition.
- At the end of the competition, the group with the highest cumulative score will be declared the overall champion. In case of a tie in both cumulative score and time, a tie-breaker question will be given.
- A Terms of Reference for the Program Management Team (PMT), Activity Host, Station Marshall, Supervising Marshall, and the Judges shall be provided.
- The decision of the judges shall be final and irrevocable.

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
- Recognizable medical team on standby throughout the competition
- The safety officer will oversee all activities
- There must be a 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

- **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 (Medals + Certificates)
 - First Runner-up (Medals + Certificates)
 - Second Runner-up (Medals + Certificates)
 - Third Runner-up (Certificates)
 - Fourth Runner-up (Certificates)
- Recognition:
- Certificates of recognition for all competing students
 - Certificates of recognition for all coaches

E. Post Competition Rule

The main hall and waiting rooms shall be cleaned and organized by the participants before leaving their respective areas.

Terms of Reference

A. The Program Management Team (PMT) shall:

- ✓ Ensure the systematic and smooth conduct of the event.
- ✓ Coordinate with the Event Focal regarding preparations and requirements.
- ✓ Provide technical support as needed during the activity.
- ✓ Supervise the overall readiness and smooth execution of the contest.

B. The Host shall:

- ✓ Assist the PMT in ensuring the successful conduct of STEMAzing.
- ✓ Lead the group in the preparation, execution, and post-activity tasks regarding:
 - a. Venue setup and cleanliness
 - b. Manpower deployment
 - c. Materials management
 - d. Safety and risk management
- ✓ Ensure the billeting quarters and working areas for the Technical Working Group (TWG) are ready and properly arranged.
- ✓ Provide support to the Event Manager in coordinating personnel and logistics during the event.

C. The Event Facilitator shall:

- ✓ Record the beginning and end time of each team in the assigned station.

- ✓ Ensure that answer sheets are properly placed inside the envelope assigned to each team.
- ✓ Endorse all completed envelopes in the station to the Judges.
- ✓ Check the completeness of materials in the assigned station before and during the activity.
- ✓ Assist in the placement of markers, tables, and other related materials needed for the station.
- ✓ Provide technical assistance limited to the provision of necessary materials only.
- ✓ Refrain from coaching, giving hints, or assisting teams in answering tasks.
- ✓ Maintain order and proper documentation within the assigned station.

E. The Judges shall:

- ✓ Be a specialist in the field of STEM.
- ✓ Review competition guidelines and scoring rubrics.
- ✓ Evaluate the outputs based on originality, scientific accuracy, practical application, clarity, and teamwork.
- ✓ Provide impartial scores and constructive feedback.
- ✓ Maintain confidentiality of deliberations and declare any conflict of interest.

Engineering Design Challenge for High School

The Engineering Design Challenge provides participants with an authentic, contextualized STEM problem that requires the application of scientific knowledge, mathematical reasoning, engineering principles, and critical thinking to develop an innovative and feasible solution. The challenge is intended to simulate real-world engineering practice by engaging learners in the Engineering Design Process (EDP), where they analyze a problem, identify design criteria and constraints, generate and justify a solution, and effectively communicate their proposed design.

The focus of the challenge is not solely on arriving at a correct answer, but on demonstrating a systematic and evidence-based design process. Participants are expected to integrate concepts from Science and Mathematics, consider practical constraints and societal needs, and propose solutions that are technically sound, creative, sustainable, and responsive to the given context.

To provide flexibility while ensuring consistency in judging, teams may organize and present their ideas using a format of their choice. However, the presentation must clearly demonstrate the essential components of the Engineering Design Process and address all required contents prescribed in these mechanics. The presentation shall serve as the official basis for the oral presentation and the question-and-answer session.

Required Contents of the Presentation Deck

The presentation deck shall clearly communicate the team's engineering design solution to the given challenge. While the sequence and organization of the presentation are left to the discretion of the team, the presentation **must include** the following components:

1. **Problem Statement**
Clearly define the engineering problem or challenge to be addressed.
2. **Needs, Criteria, and Constraints**
Identify the intended users or stakeholders, design requirements, success criteria, and relevant constraints (e.g., cost, materials, time, safety, sustainability, environmental impact).
3. **Background Research and Analysis**
Present relevant scientific and mathematical concepts, data, evidence, or contextual information that informed the team's understanding of the problem.
4. **Proposed Engineering Solution**
Describe the proposed solution and explain how it addresses the identified problem and satisfies the stated criteria.
5. **Design Representation**
Include a labeled sketch, schematic, flowchart, diagram, or conceptual illustration sufficient to explain the proposed design.
6. **Scientific and Mathematical Justification**
Explain the scientific principles, engineering concepts, mathematical reasoning, calculations, or evidence supporting the proposed design.
7. **Implementation Plan**
Describe how the proposed solution could be developed or implemented, including the major steps, required resources, and practical considerations.

8. Evaluation of the Proposed Design

Explain how the effectiveness of the proposed solution may be evaluated, including anticipated outcomes, potential limitations, possible risks, and opportunities for improvement.

9. References

Properly acknowledge all sources of information, data, images, and other materials used in developing the presentation.

10. AI Use Declaration

The presentation shall include a declaration indicating whether Generative Artificial Intelligence (AI) tools were used in preparing the presentation. If AI tools were used, the team shall specify the tool(s) used, the purpose of use, and affirm that the team's analysis, engineering decisions, and final presentation are their own work and that all AI-generated content has been critically reviewed and verified for accuracy.

Presentation Requirements

- The presentation shall consist of **not more than ten (10) content slides**, excluding the title slide.
- The organization, sequence, visual design, and layout of the presentation shall be determined by the team.
- All required contents listed above must be addressed in the presentation.
- You may use any slide deck application and any other application to enhance your presentation.
- The submitted presentation shall serve as the official basis for the oral presentation and the subsequent question-and-answer session.

Rubric for Scoring for Written Outputs

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

Rubric for Scoring for Oral Presentation / Argument

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

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

Rubric for Scoring for Slide Deck Presentation

Criterion	Excellent	Proficient	Developing	Beginning
1. Problem Analysis and Engineering Design Process (4 pts)	4 pts – Clearly defines the problem, identifies stakeholders, criteria, and constraints, and demonstrates a systematic application of the Engineering Design Process.	3 pts – Defines the problem and identifies most criteria and constraints with minor omissions.	2 pts – Problem analysis is partially developed; important criteria or constraints are missing.	1 pt – Problem is poorly defined or lacks a clear engineering design process.
2. Engineering Design Solution (6 pts)	6 pts – Solution is innovative, technically sound, and fully addresses the identified problem while meeting the stated criteria and constraints.	5 pts – Solution adequately addresses the problem and is generally feasible, with minor weaknesses.	3-4 pts – Solution partially addresses the problem but lacks completeness, innovation, or technical soundness.	1-2 pts – Solution is impractical, incomplete, or does not adequately address the problem.
3. Scientific and Mathematical Justification (6 pts)	6 pts – Solution is thoroughly supported by accurate scientific principles, mathematical reasoning, engineering concepts, and relevant evidence or data.	5 pts – Scientific and mathematical concepts generally support the solution, with only minor inaccuracies or gaps.	3-4 pts – Limited or partially accurate scientific and mathematical justification.	1-2 pts – Justification is inaccurate, insufficient, or largely unsupported by scientific or mathematical principles.
4. Feasibility and Practicality of the Proposed Solution (4 pts)	4 pts – Solution is realistic, implementable, sustainable, and appropriately considers cost, safety, available resources, environmental impact, and other practical constraints.	3 pts – Solution is generally feasible but has minor practical limitations.	2 pts – Feasibility is only partially demonstrated; several practical considerations are overlooked.	1 pt – Solution is impractical or fails to consider major implementation constraints.

SAMPLE SCORESHEET

STATION	CORRECT/ACCOMPLISHED	SCORE	TIME (in minutes:seconds)
Team 1			
1	CORRECT	5	5:00
2	CORRECT	8	6:30
3	ACCOMPLISHED	10	5:30
4			
5			
6			
7			
8			
9			
10			
TOTAL		94	170:40

Prepared by:

Signature over Printed Name
Judge 1

SAMPLE SUMMATIVE SCORESHEET

TEAM	Judge 1	Judge 2	Judge 3	AVERAGE TOTAL SCORE	TIME (in minutes:seconds)	Rank
1	93	94	96	94.33	170:40	2
2	94	96	95	95.00	160:17	1
3	79	80	82	80.33	175:22	9
4	96	93	94	94.33	178:05	3
5	85	88	87	86.67	180:00	7
6	87	85	88	86.67	179:22	6
7	73	74	75	74.00	180:00	10
8	84	86	85	85.00	178:05	8
9	90	92	91	91.00	175:22	4
10	89	92	90	90.33	160:25	5
11						
12						
13						
14						
15						
16						
17						
18						

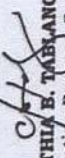
Prepared by:

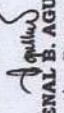
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Judge 1

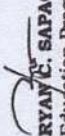
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Judge 2

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Judge 3

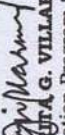
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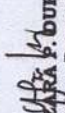

CYNTHIA B. TABLANG
Education Program Supervisor
SDO Alaminos City
Region I – Ilocos Region


JUVENAL B. AGUSTIN
Education Program Supervisor
Region II – Cagayan Valley

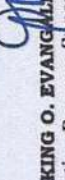

RYAN C. SAPAO
Education Program Supervisor
SDO City of San Fernando (P)
Region III – Central Luzon


PAUL GENACE L. OCAMPO
Education Program Supervisor
Region IV A – CALABARZON


CLARITA G. VILLARUEL
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Region IV B – MIMAROPA


CHOZARA V. BUROY
Education Program Supervisor
Region V – Bicol Region


ASTER MADALLA
Education Program Supervisor
Cordillera Administrative Region


DON KING O. EVANGELISTA
Education Program Supervisor
National Capital Region


MARK ANTHONY A. DURANA
Education Program Supervisor
Region VI – Western Visayas


JOSEPHINE S. DELA TORRE
Education Program Supervisor
SDO Cebu Province
Region VII – Central Visayas


EMMANUEL P. FIRMO JR.
Education Program Supervisor
Region VIII – Eastern Visayas


MA. MELANIE P. ROMERO
Education Program Supervisor
Negros Island Region


NICK C. PANARES
Education Program Supervisor
Region X – Northern Mindanao

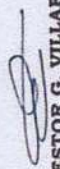

MARIA LIZA T. BERANDYO
Education Program Supervisor
Region XI – Davao Region

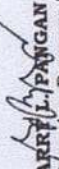

DANTILY S. VILLANUEVA
Education Program Supervisor
Region XII – SOCCSARGEN

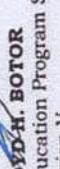

MARIA RUTH R. EDRADAN
Education Program Supervisor
Region XIII – Caraga Region


SHALMA A. MANDING
Education Program Supervisor
SDO Lanao Del Sur I
BARMM

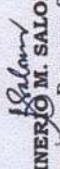
(Enclosure No. 2 to DepEd Memorandum No. s. 2027)


NESTOR G. VILLAFLO
Education Program Supervisor
SDO-Ilocos Sur, Region I

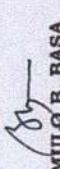

GARRET L. PANGAN
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SDO-Pampanga Region III

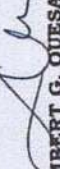

LOYD H. BOTOR
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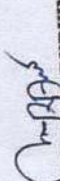

JOCELI S. BEDUYA
Education Program Supervisor
SDO-Mandaue City, Region VII


RAINERIO M. SALOMES
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Region IX

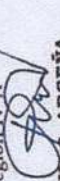

SHALMA A. MANDING
Education Program Supervisor
BARMM

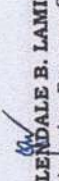

ROMULO B. BASA
Education Program Supervisor
CAR


LAMBERT G. QUESADA
Education Program Supervisor
NCR


ISAGANI K. DURUIN
Education Program Supervisor
Region II


GILBERT O. ORUZ
Education Program Supervisor
Region IV-A

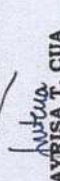

KIM S. ARCEÑA
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SDO-Iloilo, Region VI


GLENDAL B. LAMISERIA
Education Program Supervisor
Region VIII


HERMINIA A. BANTIDING
Education Program Supervisor
RO XI


RHEA J. PARRAGUIRRE
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