Republic of the Philippines
Department of Education
SCHOOLS DIVISION OF MARINDUQUE

DEPARTMENT OF EDUCATION
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Office of the Schools Division Superintendent

July 28, 2025

DIVISION MEMORANDUM
No. 071, s. 2025

ADVANCE INFORMATION ON THE CONDUCT OF THE 2025 MARINDUQUE SCILYMPICS

To: Assistant Schools Division Superintendent
Chief Education Supervisors
Public Schools District Supervisors
Public & Private Elementary and Secondary School Heads
All Others Concerned

1. The Schools Division of Marinduque, through the Curriculum Implementation Division, announces the upcoming conduct of the **2025 Marinduque Scilympics**, a division-level science competition that aims to strengthen learners' scientific knowledge, creativity, and innovation, and promote the professional growth of teachers in science education.

2. This year's Scilympics introduces a broader and more inclusive set of contest categories for learners, teachers, and parent-learner teams. Aside from the traditional Science Investigatory Project (SIP) Expo, the competition now includes new categories that focus on scientific communication, innovation, design thinking, digital instruction, and family engagement in science.

3. In line with this, all public and private schools are hereby informed in advance to provide ample time for preparation and capacity-building of participants. School-level orientations, mentoring, and elimination rounds are encouraged to ensure quality entries and active participation in all categories.

4. The **exact schedule and venue** of the Division-level competition will be announced through a follow-up memorandum. Timeline of Activities, Contest mechanics, descriptions, and judging criteria are detailed in the attached Marinduque Scilympics Competition Package.

5. For clarifications or further assistance, schools may coordinate with the Science Education Program Supervisor.

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6. Immediate dissemination of the contents of this Memorandum is desired.

LYNN G. MENDOZA, EdD
OIC-Schools Division Superintendent

Encl: As stated
Reference: None

To be indicated in the Perpetual Index
under the following subjects

AWARDS
BASIC EDUCATION
CONTESTS
SCIENCE EDUCATION

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Enclosure No. 1 to Division Memorandum No. 071, s. 2025

MARINDUQUE SCILYMPICS CONTEST CATEGORY

A. ELEMENTARY SCHOOL LEARNERS

A.1 Science in Action: Innovation and Application Challenge (Team Category)

Description:

Learners apply scientific principles to address local problems through innovative projects that highlight creativity, functionality, and sustainability.

Objective:

To foster creativity and critical thinking by encouraging learners to apply science concepts in addressing societal or environmental issues.

Mechanics:

- Open to Grades 4–6 students (group of up to 3 members).
- Participants shall be given an on-the-spot situation to work on.
- Three hours shall be given to address real-world problems with a working prototype or detailed model.
- Presentations must include problem identification, science concept applied, innovation details, and possible community impact.
- Each individual member is required to use laptop for the development of write-ups.
- Time allotment: 2 minute-presentation, 5 minutes Q&A.

Criteria for Judging

CRITERIA	WEIGHT
Scientific Thought	25%
Creativity and Innovation	25%
Relevance and Impact	20%
Clarity of Presentation	15%
Feasibility	15%
TOTAL	100%

A. 2. Science Communication and Advocacy Contest (Team)

Description:

A multimedia contest where learners advocate for scientific awareness through videos, posters, or spoken word pieces.

Objective:

To promote scientific literacy and advocacy through effective communication.

Mechanics:

- Open to Grades 4–6 students.
- Entry formats: infographic, short video (max 3 mins), or speech/monologue (max 5 mins).

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- Focus topic: local environmental issues, health, or science education.
- Materials must be original and aligned with the theme.

Criteria for Judging

Criteria	Weight
Content Accuracy	30%
Creativity and Originality	25%
Relevance to Theme	20%
Presentation and Delivery	15%
Technical Quality	10%
TOTAL	100%

A.3. Science Investigatory Project Expo (Life and Physical Science)

Project Format Description:

a. Executive Summary- a brief discussion about the proposal.

b. Introduction- a declaration of the project and its idea and context to explain the goals and objectives to be reached and other relevant information that explains the need for the project and states the aims to describe the amount of work planned for implementation; refers to a simple explanation or depiction of the project that can be used as communication material.
Rationale- a brief analysis of the problems identified related to the project –
Significance- refers to the alignment to national S&T priorities, strategic relevance to national development and addresses current issues and concerns.
Scientific Basis- scientific findings, conclusions or assumptions used as justification for the research.
Theoretical Framework- the structure that summarizes concepts and theories that serve as basis for the data analysis and interpretation of the research data.
Objectives- statements of the general and specific purposes to address the problem areas of the project.

c. Review of Literature - refers to the following:

a. related researches that have been conducted, state-of-the-art or current technologies from which the project will take off;
b. scientific/technical merit;
c. results of related research conducted by the same Project leader, if any;
d. Prior Art Search, and;
e. other relevant materials.

d. Criteria for Judging

Criteria	Description	Weight
Originality and Innovation	The project provides novel and innovative solutions to issues in the environment	20%
Technical/Scientific Merit	Sound scientific basis to generate new knowledge or apply existing knowledge in an innovative manner	20%

Community Connection and Impact	Outcomes are expected to address the issue or problem identified	20%
Excellence of method	Solution and method proposed and cost effective, viable, timely and relevant.	20%
Presentation	Proponent/s provide/s a clear explanation of the facts, theories, through understanding of the expected output of the proposal	20%
Total		100%

A.4. Science Innovation Expo

Description:
A showcase of learner-created tools, devices, or systems designed to address practical community challenges using scientific principles.
Mechanics:

- Group entry (max 3 members).
- Must present a write-up, prototype, demonstration, and poster.
- Device should reflect practical use, cost-effectiveness, and innovation.
- Required: documentation and 3-minute pitch.

Criteria for Judging

Criteria	Weight
Innovation and Creativity	30%
Functionality	25%
Potential for Community Use	20%
Cost-efficiency	15%
Presentation	10%
TOTAL	100%

A.5. STEMtokperiments

Description:

A Science Experiment Showcase on TikTok for Elementary (Grade 4-6) Learners. The STEMtokperiment Exhibition invites elementary learners to showcase their love for science through creative and educational TikTok videos. This social media-based exhibition encourages young participants to design and film their own science experiments, highlighting fascinating scientific concepts in an engaging and accessible way. Through the TikTok platform, learners will have the opportunity to share their discoveries, inspire curiosity, and connect with a broader audience, making science fun and interactive. Each video will demonstrate the wonder of real world science, fostering a passion for exploration and learning among budding scientists.

Mechanics

1. This exhibition is open to all Grade 4 to 6 students from public schools in the division.
2. The video entry should feature ortly one (I) TikTok user. The participant can explain the topic/content in English or Filipino.
3. The participant must design an experiment proving or applying a

Scientific Concept, Theory, or Law in a cheerful, lively, and creative manner through a TikTok Video that is not more than one (l) minute.

4. All contents and audio in the TikTok video must be original and are owned by the participant/ s. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are allowed. The contestants will be held accountable for any issues that may arise regarding the originality and accuracy of the content.
5. The following TikTok video format are highly recommended:
    a. File Size: The video should be up to 187.6 MB in size for iOS, or 72 MB on android.
    b. Orientation: TikTok is formatted to be viewed on a smartphone, so vertical video is best.
    c. Aspect Ratio: The aspect ration should be that of a standard smartphone screen, 9:16. 1: 1 is also possible, but it will not take up whole screen.
    d. File Type: TikTok supports .mp4 and .mov files.
6. The TikTok Video must use the official hashtags #MARINDUQUEstemtokperiments and #MARINDUQUErstf2025 in uploading the video entry in TikTok.
7. Each District shall submit one (1) entry to the Division STEMtokperiment Exhibition. It should be uploaded to the assigned submission link that will be provided to the District Science Coordinators.
8. File name for the Districts submission should foflow this format:
   STEMtokperiment District Title.
   Example: STEMtokperiment_BoacNorth_Osmosis

9. The Division District Science Coordinator shall submit along with the TikTok Video the following information of their entries:

Name of the Participant

    a. TikTok Video Link from the social media platform (TikTok)
    b. PDF File of the Video Script along with the references in the 7th Edition APA Referencing Style.

10. TikTok video entries submitted to STEMtokperiment do not represent DepEd MARINDUQUE

11. The Tiktok video will be judged according to the following criteria.

Criteria	Percentage
Originality and Creativity Video is original, creative and unique	30%
Delivery/Execution Delivery is well planned with smooth transitions and edits. Ideas are very organized and easily understood All sound and visual elements coincide with the video's content	30%
Accuracy of Content All information being delivered is accurate	40%

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and relevant.	
Total	100%

B. SECONDARY SCHOOL LEARNERS

B.1. TUKLAS: Science Fair
Project Format Description:

a. Executive Summary- a brief discussion about the proposal.
b. Introduction- a declaration of the project and its idea and context to explain the goals and objectives to be reached and other relevant information that explains the need for the project and states the aims to describe the amount of work planned for implementation; refers to a simple explanation or depiction of the project that can be used as communication material.
   b.1 Rationale- a brief analysis of the problems identified related to the project – Significance- refers to the alignment to national S&T priorities, strategic relevance to national development and addresses current issues and concerns.
   b.2 Scientific Basis- scientific findings, conclusions or assumptions used as justification for the research.
   b.3 Theoretical Framework- the structure that summarizes concepts and theories that serve as basis for the data analysis and interpretation of the research data.
   b.4 Objectives- statements of the general and specific purposes to address the problem areas of the project.
c. Review of Literature - refers to the following:
   a. related researches that have been conducted, state-of-the-art or current technologies from which the project will take off;
   b. scientific/technical merit;
   c. results of related research conducted by the same Project leader, if any;
   d. prior art search, and;
   e. other relevant materials.

Criteria for Judging

Judging Criteria	Description	Weight
Originality and Innovation	The project provides novel and innovative solutions to issues in the environment	20%
Technical/Scientific Merit	Sound scientific basis to generate new knowledge or apply existing knowledge in an innovative manner	20%
Community Connection and Impact	Outcomes are expected to address the issue or problem identified	20%
Excellence of Method	Solution and method proposed and cost effective, viable, timely and relevant.	20%
Presentation	Proponent/s provide/s a clear explanation of the facts, theories, through understanding of the expected output of the proposal	20%
Total		100%

B.2. Science Innovation Expo

Description:
An exhibit of high-impact science-based innovations that address real-world issues in sustainability, education, health, and technology.
Mechanics:

- Open to teams (max 3 members
- Projects must be functional or semi-functional prototypes.
- Must present:
  - Problem statement
  - Concept and innovation
  - Model or prototype
  - Video demo (optional)
- Booth setup and pitch required.

Criteria for Judging

Judging Criteria	Weight
Innovation and Creativity	30%
Relevance to SDGs and Local Needs	25%
Functionality and Feasibility	20%
Presentation and Exhibit Quality	15%
Sustainability and Scalability	10%
TOTAL	100%

B.3. Aghamazing (For DFOT)

Description:
A creative pitch competition for marketable science-based solutions to issues in agriculture, environment, disaster risk reduction, energy, cybersecurity, etc.

Mechanics:

- Individual or group (up to 3 members
- Entry must include a short pitch deck and prototype/demo.
- 5-minute pitch + 3-minute Q&A.
- Focus areas:
  - Food security
  - Climate action
  - Water conservation
  - Cybersecurity, etc.

Criteria for Judging

Judging Criteria	Weight
Innovativeness and Practicality	30%
Impact and Relevance	25%
Pitch Delivery and Engagement	20%
Market Potential	15%
Visuals and Prototype Quality	10%
TOTAL	100%

B.4. SciMatik: Improvised Materials Challenge

Description:

Promotes resourcefulness and innovation in designing improvised science tools or apparatuses using indigenous or recyclable materials.

Mechanics:

- Individual or group (max 3 members).
- Output must be original, functional, and safe for classroom use.
- Must submit:
  - Description of the tool
  - Materials used
  - Instructions
  - Short video or demo

Criteria for Judging

Judging Criteria	Weight
Creativity and Resourcefulness	30%
Functionality and Usability	25%
Safety and Sustainability	20%
Clarity of Documentation	15%
Presentation and Design	10%
TOTAL	100%

C. TEACHERS (ELEMENTARY & SECONDARY)

C.1. Science Teaching Excellence Challenge

Description:

A model lesson showcase highlighting best practices in science pedagogy, content delivery, and learner engagement.

Mechanics:

- Individual entry
- Submit:
  - Lesson plan aligned with the Revised K to 12 Curriculum/MELCs
  - 10-minute recorded or live demo lesson
- Emphasis on inquiry-based learning and learner-centered strategies.

Criteria for Judging

Judging Criteria	Weight
Mastery of Content	25%
Pedagogical Approaches	25%
Learner Engagement	20%
Instructional Materials	15%
Clarity and Creativity	15%
TOTAL	100%

C.2. Digital Science Instructional Design Challenge

Description:
A competition for designing interactive, 21st-century-aligned digital learning resources for science instruction.

Mechanics:

- Individual
- Submit:
  - Original digital instructional tool (e.g., module, app, animation, LMS content)
  - Rationale and usage guide
- Must align with MELCs or Revised K to 10 Curriculum and include formative assessment elements.

Criteria for Judging

Judging Criteria	Weight
Instructional Quality	30%
Digital Innovation	25%
Usability and Engagement	20%
Alignment with Curriculum	15%
Technical Execution	10%
TOTAL	100%

C.3. Remedial Innovation Challenge

Description:
Focuses on creative and data-driven interventions addressing learners' least mastered competencies in Science.

Mechanics:

- Individual
- Must be based on actual learner performance data.
- Submit:
  - Strategy documentation
  - Sample outputs
  - Tools used (e.g., worksheets, games, modules)

Criteria for Judging

Judging Criteria	Weight
Relevance and Evidence-Based	30%
Creativity and Innovation	25%
Learner Impact	20%
Sustainability and Replicability	15%
Clarity of Presentation	10%
TOTAL	100%

D. PARENT-LEARNER CATEGORY (Elementary and Secondary)

D.1. Science @Home Challenge

Description:

A family-based science activity promoting home-based learning through simple investigations using everyday materials.

Mechanics:

- Team: One parent/guardian + one learner
- Submit:
  - Written documentation of the experiment
  - Photos or short video
  - Reflection from both parent and child

Criteria for Judging

Judging Criteria	Weight
Scientific Relevance	25%
Creativity and Simplicity	25%
Collaboration and Engagement	20%
Clarity and Documentation	20%
Presentation and Impact	10%
TOTAL	100%

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Enclosure No. 2 to Division Memorandum No. 071, s. 2025

Timeline of Activities for Division Level Preparation

Schedule	Activities
May-July 2025	Refinement and finalization of the research project plan Preparation and collection of materials Conduct of experimentation Data Collection Analysis
August 2025	Data Collection Analysis Preparation of data logbook (both level) and ISEF Forms (Secondary level) Writing of the Research Paper (Introduction, Methodology and Results, and Discussion)
September 2025	Conduct of School Level Competition Conduct of District Level Competition Submission of SIP Write-Ups Conduct of Marinduque Scilymnpics
October 2025	Enhancement of Write-ups for Regional Level Screening Submission of Write-ups to the Regional Office Conduct of Regional Science & Technology Fair

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