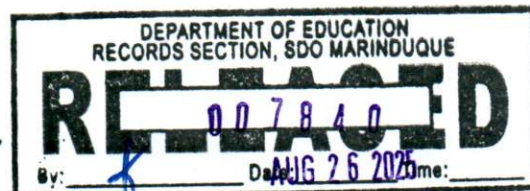




Republic of the Philippines
Department of Education
SCHOOLS DIVISION OF MARINDUQUE



Office of the Schools Division Superintendent

August 26, 2025

DIVISION MEMORANDUM

No. **084** s. 2025

MARINDUQUE SciLYMPICS 2025

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

1. The Department of Education Schools Division of Marinduque, through the Curriculum Implementation Division (CID), announces the conduct of **MARINDUQUE SciLympics 2025** to be held on **October 16, 2025** at **Buenavista CS** for the elementary level and on **October 17, 2025** at **Buenavista NHS** for the Secondary level with the theme "Harnessing the Unknown: Powering the Future Through Science and Innovation."

2. **MARINDUQUE SciLympics 2025** is a division-wide science competition that aims to stimulate interest in science and provide valuable science experience to learners and science teachers, specifically to:

- make science principles alive, meaningful, and relevant to the learners;
- promote science and technology consciousness among the youth;
- foster creativity and critical thinking for both the learners and teachers; and
- strengthen the skills of teachers in research, content and pedagogy, thus, enhancing science competence through healthy and friendly competition.

3. Interested participants from the private schools may directly join the division level competition in different contest categories.

4. Official delegates to this competition are the Public Schools District Supervisors, Elementary and Secondary Science Coordinators, Contest Officials/Coaches, and learner-participants in the different contest categories in the Elementary, Secondary and Integrated Schools both from the Private and Public Schools. A registration fee of PHP 200.00 shall be collected from the student and teacher-participants for food expenses of the contest officials and honorarium of judges for Science Fair Categories.

5. Enclosed are the following for reference:

- | | |
|-----------------|---|
| Enclosure No. 1 | Marinduque Scilympics Contest Officials |
| Enclosure No. 2 | General Guidelines |
| Enclosure No. 3 | Contest Mechanics |

Enclosure No. 4	Research Paper Format for the Secondary Level
Enclosure No. 5	List of Forms and Documents Required for Submission in all Levels of Competition for Secondary Level
Enclosure No.6	The Contest Events and Allocation of Entries Per District
Enclosure No. 7	Timeline of Activities for Division Level Preparation
Enclosure No. 8	Program Matrix for the Elementary Level
Enclosure No. 9	Program Matrix for the Secondary Level
Enclosure No. 10	Point System of the Contest

6. District Science Coordinators and School Coordinators from the private schools are requested to accomplish the form via link on or before October 6, 2025, for the list of participants. Format and submission can be accessed through this link: <https://tinyurl.com/SCILYMPICS2025>

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

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



LYNN G. MENDOZA, EdD
OIC-Schools Division Superintendent

Encl: As stated
Reference: Regional Memo No. 98, s. 2025
Division Memo No. 71, s. 2025

To be indicated in the Perpetual Index
under the following subjects

AWARDS
BASIC EDUCATION
CONTESTS
SCIENCE EDUCATION

CID/MSSS

MARINDUQUE SCILYMPICS CONTEST OFFICIALS

Over-all Chairperson: Dr. Ma. Shiela S. Saet
 Asst. Chairperson: Mrs. Maridel G. Lincallo
 Members: Mrs. Thelma M. Salvacion
 School Head of Buenvista ES
 Mrs. Mae Laarni M. Saporna

Encoding and Distribution of Write-ups for the Secondary Level
 Mrs. Virginia Monleon
 Mr. Jefferson Mameng
 Mrs. Irene M. Laugo
 Mrs. Edlhen M. Jalac

Encoding and Distribution of Write-Ups for the Elementary Level
 Mrs. Riza Borcena
 Mrs. Connie Marie Olympia
 Mrs. Mary Ann Luci

Contest Officials for Each Contest Category

A. ELEMENTARY SCHOOL LEARNERS

Chairperson: Mrs. Ma. Paz R. Pernia
 Co-Chairperson: Mr. Jomar Linga

Contest Category	Chairperson	Members (2 Coaches from Other Contest Categories)	Board of Judges
A.1 Science in Action: Innovation and Application	Mrs. Amor Jandusay		Mr. Jaime Almonte Mrs. Genelyn J. Regio Mr. Glen P. Espirituo
A. 2. Science Communication and Advocacy Contest (Team)	Mrs. Lina Rolloque		Mrs. Eva Angelina Lampas Mrs. Ma. Leonora D. Imperio Mrs. Edna M. Jalos
A.3 Science Investigatory Project Expo (Life Science)	Mrs. Rhodora Pena		Ma. Ma. Christina Mangana Mr. Romeo Malacas, Jr. Mrs. Pinky M. Mabiog
A.3 Science Investigatory Project Expo Physical Science)	Mrs. Donna Bella R. Rocha		Dr. Kathryn S. Asuncion Mrs. Dezza G. Perlas

			Dr. Pacifico P. Belarmino
A.4. Science Innovation Expo Life Science	Mr. Jhonrex Sapunto		Mrs. Josephine Pastorfide Mr. Ricardo M. Maaño Mrs. Ma. Cecilia S. Par
A.5. STEMtokperiments	Mrs. Mylene Jasmin L. Rolloque		Dr.. Arlene R. Diaz Mrs. Marife Maano Mr. Mateo Garcia

B. ELEMENTARY SCHOOL TEACHERS

Contest Category	Chairperson	Members (2 Coaches from Other Contest Categories)	Board of Judges
Science Teaching Excellence Challenge	Mrs. Maribel E. Orpalas		Mrs. Aurea A. Mazo Dr. Dingson A. De Sena Mrs. Maridel G. Lincallo
Digital Science Instructional Design Challenge	Mrs. Maribert S. De los Santos		Dr. Mariam B. Rivamonte Dr. Maria Lourdes P. Ricohermoso Dr. Elvin C. Perlas
Remedial Innovation Challenge	Mrs. Rona Mae Paradero		Mr. Warlito P. Constantino Mrs. Constanica R. Vasco Dr. Joven R. Mogol

C. ELEMENTARY SCHOOL PARENTS

Contest Category	Chairperson	Member	Board of Judges
Science @Home Challenge	Mrs. Arlene Lumagui	-	Dr. Jay P. Pena Mrs. Myra R. Labay Mrs. Charmain J. Mogol

D. SECONDARY SCHOOL LEARNERS

Chairperson: Mrs. Bernadette R. Ricafrente

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Co-Chairperson: Mrs. Annaliza M. Retardo

Contest Category	Chairperson	Members (2 Coaches from other Contest Categories)	Board of Judges
TUKLAS Life Science	Mrs. Thelma M. Salvacion		Mr. Dave Henry R. Nobleza Mrs. Mae Laarni M. Saporna Mr. Fristian Anthony L. Dormido
TUKLAS-Physical Science	Mrs. Sheryl Mendoza		Prof. Panchito M. Labay Mrs. Riena I. Rodriguez Mrs. Mailyn M. Go
TUKLAS Robotics and Intelligent Machine-	Mrs. Elizabeth R. Paralejas		Mr. Richard N. Ortiz Mr. Alfonso Reginio Mr. Perry Angelo C. Manlapaz
TUKLAS- Mathematics & Computational Science	Mrs. Marivic L. Zamora		Mr. Paolo Andrew Pantoja Mrs. Christine J. Naling Mr. Gueller Dee V. Salazar
Science Innovation Expo	Mrs. Marlita Vitto		Mr. Jerome S. Catamio Mrs. Emalyn R. Rodil Mrs. Maricel Solas
<i>SciMatik: Improvised Materials Challenge</i>	Mrs. Mary Rose S. Sotto		Dr. Jimmy Romasanta Mr. Dino Nepomuceno Mrs. Madilyn P. Quirona

E. SECONDARY SCHOOL TEACHERS

Contest Category	Chairperson	Members (2 Coaches from Other Contest Categories)	Board of Judges
Science Teaching Excellence Challenge	Mr. Rowel Laririt		Mrs. Aurea A. Mazo Dr. Dingson A. De Sena Mrs. Maridel G. Lincallo
Digital Science Instructional Design Challenge	Mr. Darwin C. Mayo		Dr. Mariam B. Rivamonte Dr. Maria Lourdes P. Ricohermoso Dr. Elvin C. Perlas
Remedial Innovation Challenge	Mrs. R. Maxima Marquez		Mr. Warlito P. Constantino Mrs. Constanica R. Vasco Dr. Joven R. Mogol

F. SECONDARY SCHOOL PARENT CATEGORY

Contest Category	Chairperson	Members (2 Coaches from Other Contest Categories)	Board of Judges
Science @Home Challenge	Mrs. Norminda S. Mabao		Dr. Jay P. Pena Mrs. Myra R. Labay Mrs. Charmain J. Mogol

GENERAL GUIDELINES

THE COMPETITION

1. All contest categories are open to all Public and Private Elementary, Junior, Integrated and Senior High Schools of the Schools Division of MARINDUQUE. There will be ONLY one set of division winners in all contest categories either from the private or public schools.
2. The overall Chairperson for the elementary and secondary level shall ensure the smooth conduct of the competition in their respective level.
Each chairperson for each contest category is responsible for the following:
 - Presentation of Judges
(Introduction of Board of Judges)
 - Reading / Explanation of Contest Mechanics
(Rules, criteria for judging, and reminders for participants)
 - Competition Proper
(Lead the contest proper)
 - Awarding of Winners
(Awards certificate of participation and certificate of recognition and appreciation to the non-winners, winners, officials and board of judges)
3. All participants are required to strictly observe and follow the schedule as stipulated in the program matrix of this competition.
4. The decision of the Board of Judges is **final and irrevocable**.
5. Certificates of Recognition will be awarded to the first to fifth place winners, both contestants and their respective coaches.
6. For TUKLAS and Science Fair Category, **BEST PRESENTER** shall be chosen and be awarded a certificate of recognition.
7. Only the **District Top 1** winner from both the elementary and secondary levels shall advance to the Division Competition in all categories, **except** for the **TUKLAS and Innovation Expo categories from the secondary level**, where both the **Top 1** and **Top 2** winners are eligible to compete at the division level.
8. A **CHAMPION** will be declared for both elementary and the secondary levels per category:
 - a. Learners Category
 - b. Teachers Category; and
 - c. Parent-Learner Category
9. **BEST PERFORMING SCHOOL for Elementary and Secondary levels** will also be declared after consolidating all the points earned in all the categories.
10. **A GRAND CHAMPION** will be declared combining all the points for the elementary and the secondary levels.
11. **THE HOST SCHOOLS** for MARINDUQUE SciLympeis 2025 are the Buenavista CS for the elementary level and Buenavista NHS for the secondary level.
12. The host schools are expected to:
 - a. prepare program and emcee;
 - b. prepare venue for the opening and closing program;
 - c. provide an information board at the entrance to guide the participants in the contest venue;
 - d. provide labels for the contest venue;

- e. provide the facilities needed such as chairs, tables, LCD Projectors and Screens, sound system, contest and waiting rooms for the different contest categories;
- f. distribute the certificate of participation, appreciation and recognition to the different contest chairperson;
- g. prepare and distribute the snacks and lunch for the contest officials;
- h. submit a narrative report including documentation and consolidated result of the contest to the Division; and
- i. submit a financial report of the collection and expenses signed by the school head.

13. The Host School shall follow the Sample Program Flow for the activity

- a. Prayer
- b. National Anthem
- c. Welcome Remarks (Host School Head or Host PSDS)
- d. Statement of Purpose/Overview of the Competition (EPS-in-Charge)
- e. One intermission number
- f. Message of Inspiration (SDS/representative)
- g. Declaration of Contest Proper (SDS/representative)

MARINDUQUE SCILYMPICS CONTEST CATEGORY

A. ELEMENTARY SCHOOL LEARNERS

- A.1 *Science in Action: Innovation and Application Challenge (Team Category)*
- A.2 *Science Communication and Advocacy Contest (Team)*
- A.3 *Science Investigatory Project Expo*
 1. Life Science-Individual Category
 2. Life Science – Team Category
 3. Physical/Applied Science-Individual Category
 4. Physical/Applied Science-Team Category
- A.4 *Science Innovation Expo -Team Category*
- A.5 *STEMtokperiments-Individual Category*

B. SECONDARY SCHOOL LEARNERS

- B.1 *TUKLAS: Science Fair*
 1. Life Science -Individual Category
 2. Life Science-Team Category
 3. Physical Science-Individual Category
 4. Physical Science-Team Category
 5. Robotics & Intelligent Machine-Individual Category
 6. Robotics & Intelligent Machine-Team Category
 7. Mathematics and Computational Science- Individual Category
 8. Mathematics and Computational Science-Team Category
- B.2 *Science Innovation Expo*
 1. SIE-Individual Category
 2. SIE- Team Category
- B.3 *SciMatik: Improvised Materials Challenge -Team Category*

C. TEACHERS CATEGORY (ELEMENTARY & SECONDARY)

- C.1. *Science Teaching Excellence Challenge -Individual Category*
- C.2 *Digital Science Instructional Design Challenge-Individual Category*
- C.3 *Remedial Innovation Challenge – Individual Category*

D. PARENT-LEARNER CATEGORY (ELEMENTARY AND SECONDARY)

- D.1 *Science @Home Challenge (1 parent + child)*

CONTEST MECHANICS

B. 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 learners (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. and preparation of write-up.
- Each individual member is required to use laptop for the development of write-up.
- At the end of the three-hour period with the assistance of the Contest Chairperson and members, the write-up shall be printed in three copies to be given to the board of judges for judging.
- Time allotment: 5 minute-presentation, 5 minutes Q&A.
- Participants must prepare a project write-up with these parts:
 - Title of the project
 - Problem statement
 - Brief Description of the project
 - Scientific basis/principle applied
 - Innovation details
 - Possible community impact
 - Prototype or detailed model

Criteria for Judging

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

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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 learners
- Participants shall be given a situation or task to work on with in 3 hours which includes the preparation of output
- Make a creative presentation using these formats (infographic, short video (max 3 mins), or speech/monologue (max 3 mins).
- Focus topic: local environmental issues, health, or science education
- Materials must be original and aligned with the theme.
- Time allotment: 5 minute-presentation, 5 minutes Q&A

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)

Research Paper Format:

INTRODUCTION - What relevant background information supports your research problem/ questions?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature. If this is a continuation project, a brief summary of your prior research is appropriate here. Be sure to distinguish your previous work from this year's project.
- Include a brief description of how your project will address an issue, concern, or problem. Explain why this research is important and any societal impact of your research.

METHODS – What procedures were carried out for the experimentation?

- Explain in detail what you did. What data did you collect and how did you collect that data? Discuss your control group and the variables you tested.
- Discuss your control group, the variables you tested, and the statistical treatment used. Handling and disposal of wastes may be included if necessary.
- DO NOT include a list of materials.



RESULTS - What were the result(s) of your project?

- Include tables and figures that illustrate your data.
- Include relevant statistical analysis of the data.

DISCUSSION - What is your interpretation of these results?

- What do these results mean? Compare your results with theories, published data, commonly held beliefs, and expected results.
- Discuss possible errors. Did any questions or problems arise that you were not expecting? How did the data vary between repeated observations of similar events? How were results affected by uncontrolled events?

CONCLUSIONS - What conclusions did you reach?

- What do these results mean in the context of the literature review and other work being done in your research area? How do the results address your research question? Do your results support your hypothesis/hypotheses?
- What application(s) do you see for your work?

REFERENCES: What are your sources?

- This section should not exceed one page. Limit your list to the most important references.
- List the references/documentation used which were not of your creation (i.e., books, journal articles).
- Your reference list should be written based on the APA (American Psychological Association) style formatting and citation.

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 with the tools, devices or systems created.
- Device should reflect practical use, cost-effectiveness, and innovation.
- Required: documentation and 5-minute pitch or presentation

SCIENCE INNOVATION EXPO FORMAT

Title Page and Table of Contents: The title page and table of contents allow the reader to follow the organization of the paper quickly.

Introduction:

1. Features and Specifications – This describes the details of your invention.
2. Market Trends and Opportunities – This part of the report must include three items: what inspired you to develop this invention, an explanation of what problem your invention will solve, and provide supporting details that your invention does not exist yet. Explain what products are already on the market that are somewhat like your invention and describe how yours differs.

Materials and Methods: Describe in detail how you made your invention. Explain what materials were used and how you put them together to make your invention. Your report should be detailed enough so that someone would be able to repeat the steps and make your invention. Directions on how to use the invention are also necessary here. You must include a detailed drawing(s) of your invention.

Results and Discussion: This is the essence of your paper. Compare your results with theoretical values, published data, literature and related studies, commonly held beliefs, and/or expected results. Include a discussion of possible errors, statistics, graphs, pages with your raw collected data, etc. How did the data vary between repeated observations of similar events? How were your results affected by uncontrolled events? What would you do differently if you repeated this project? What other experiments should be conducted?

Conclusions: This discusses the potential applications, possible customer benefits, and the impact of innovation in solving problems and issues of today and tomorrow.

Acknowledgments: This part gives credit to those who have assisted you, including individuals, businesses, and educational or research institutions.

References/Bibliography: Your reference list should be written based on the APA (American Psychological Association) style formatting and citation.



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 learners from public schools in the division.
2. The video entry should feature only one (1) 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 (1) 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 #MARINDUQUEdstf2025 in uploading the video entry in TikTok.

7. Each District shall submit one (1) entry to the Division STEMtokperiment competition. 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 follow this format:
STEMtokperiment District Title.
Example: STEMtokperiment_BoacNorth_Osmosis
9. The 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 and relevant.	40%
Total	100%

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B. SECONDARY SCHOOL LEARNERS

B.1. TUKLAS: Science Fair

1. Life Science-Individual Category
2. Life Science-Team Category
3. Physical Science-Individual Category
4. Physical Science-Team Category
5. Robotics Intelligent Machine Individual Category
6. Robotics Intelligent Machine Team Category
7. Mathematics & Computational Science -Individual Category
8. Mathematics & Computational Science -Team Category

Mechanics:

- a. Display board/tarpaulin **NOT REQUIRED**.
- b. 3 5-minute presentation, 5-minute Q & A
- c. Please see Enclosure No. 4 for the Research format

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 are 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.
- Please see Enclosure No. 4 for the Research format
- Must present:

- Problem statement
- Concept and innovation
- Model or prototype
- Video demo (optional)
- Booth setup and pitch are 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. SciMatik: Improvised Materials Challenge

Description:

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

Mechanics:

- Group (max 3 members)
- Must bring any recyclable or indigenous materials available in the locality
- Three hours shall be given to prepare the output or the improvised material.
- Output must be original, functional, and safe for classroom use.
- Must prepare:
 - 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 on the day of the competition:
 - Lesson plan aligned with the Revised K to 12 Curriculum/MELCs
 - 10-minute 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%

10

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 on the day of the competition:
 - 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 on the day of the competition:
 - 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%

A. TUKLAS Research Paper Format

(Life Science, Physical Science & Robotics, and Intelligent Machine Category)

I. Research Plan

This is to be written prior to experimentation, following the instructions below to detail the rationale, research questions, methodology, and risk assessment of the proposed research. (This is compiled separately from the rest of the research manuscript.)

All projects should include the following:

- a. **Rationale:** Include a brief synopsis of the background that supports your research problem and explain why this research is important, and if applicable, explain any societal impact of your research.
- b. **Research Question or Problem being addressed**
- c. **Goals/Expected Outcomes/Hypotheses**
- d. **Procedures:** Detail all procedures and experimental design to be used for data collection.
- e. **Risk and Safety:** Identify any potential risks and safety precautions needed.
- f. **Data Analysis:** Examine, organize, and interpret data to answer research questions, or either accept or reject hypotheses.
- g. **Bibliography:** List at least five (5) major references (e.g., science journal articles, books, internet sites) from your literature review using the APA style formatting and citation. If you plan to use vertebrate animals, one of these references must be an animal care reference.

II. Project Data Logbook

A project data logbook is an organizational tool used by student researchers to organize and record narrative and evidence of the research activities, including the planning, research design, drawings/ illustrations, procedures, data collection, analysis, presentation, inferences, and conclusions.

- Detailed and accurate notes in paragraphs or bullets show consistency and thoroughness, which will be helpful when writing the research paper.
- It is also recommended to use hardbound record notebooks instead of spring notebooks to avoid tearing out pages, write entries using permanent pens, and minimize erasures.
- Procedures are to be presented in flow charts and data in organized tables. Each data entry (qualitative and quantitative) should also be accurately recorded, dated, and signed by the supervising adult (if applicable) during the research activity.
- Each data logbook entry should also be dated and signed by the supervising adult (if applicable) during the research activity.
- If erasures cannot be avoided, strike the word, phrase, sentence, or figure or numbers once and countersign each. Avoid using correction tapes and the like.



III. Research Paper Format:

Science Project

INTRODUCTION - What relevant background information supports your research problem/ questions?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature. If this is a continuation project, a brief summary of your prior research is appropriate here. Be sure to distinguish your previous work from this year's project.
- Include a brief description of how your project will address an issue, concern, or problem. Explain why this research is important and any societal impact of your research.

METHODS – What procedures were carried out for the experimentation?

- Explain in detail what you did. What data did you collect and how did you collect that data? Discuss your control group and the variables you tested.
- Discuss your control group, the variables you tested, and the statistical treatment used. Handling and disposal of wastes may be included if necessary.
- DO NOT include a list of materials.

RESULTS - What were the result(s) of your project?

- Include tables and figures that illustrate your data.
- Include relevant statistical analysis of the data.

DISCUSSION - What is your interpretation of these results?

- What do these results mean? Compare your results with theories, published data, commonly held beliefs, and expected results.
- Discuss possible errors. Did any questions or problems arise that you were not expecting? How did the data vary between repeated observations of similar events? How were results affected by uncontrolled events?

CONCLUSIONS - What conclusions did you reach?

- What do these results mean in the context of the literature review and other work being done in your research area? How do the results address your research question? Do your results support your hypothesis/hypotheses?
- What application(s) do you see for your work?

REFERENCES: What are your sources?

- This section should not exceed one page. Limit your list to the most important references.
- List the references/documentation used which were not of your creation (i.e., books, journal articles).
- Your reference list should be written based on the APA (American Psychological Association) style formatting and citation.

B. Mathematics and Computer Sciences Project

1. INTRODUCTION - What is your research question?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature.



- If this is a continuation project, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

2. FRAMEWORK – What is your framework?

- Introduce the concepts and notation needed to specify your research question, methods, and results precisely.
- Define relevant terms, and explain prior/ background results. (Novel concepts developed as part of your project can be presented here or in Section 4, as appropriate.)

3. FINDINGS – What are your findings and supporting arguments?

- What did you discover and/or prove? Describe your result(s) in detail. If possible, provide both formal and intuitive/verbal explanations of each major finding.
- Describe your methods in general terms.
- Present rigorous proofs of the theory results – or, if the arguments are long, give sketches of the proofs that explain the main ideas.
- For numerical/statistical results, include tables and figures that illustrate your data. Include relevant statistical analysis. Were any of your results statistically significant? How do you know this?

4. CONCLUSIONS – What is your assessment of your findings?

- How do the results address your research question? And how have you advanced your readers' understanding relative to what is already known?
- Discuss possible limitations. Did any questions or problems arise that you were not expecting?
- What challenges do you foresee in extending your results further?
- What application(s), if any, do you see for your work?

5. REFERENCES – What are your sources?

- This section should not exceed one page. Limit your list to the most important references.
- List the references/documentation used which were not of your creation (i.e., books, journal articles).
- Your reference list should be written based on the Chicago Manual of Style. For more information, you may visit the websites below:
 - <http://www.chicagomanualofstyle.org/home.html>
 - <http://www.calvin.edu/library/knightcite/index.ph>

C, Innovation Expo Paper Format

Title Page and Table of Contents: The title page and table of contents allow the reader to follow the organization of the paper quickly.

Introduction:

1. Features and Specifications – This describes the details of your invention.
2. Market Trends and Opportunities – This part of the report must include three items: what inspired you to develop this invention, an explanation of what problem your invention will solve, and provide supporting details that your invention does not exist yet. Explain what products are already on the market that are somewhat like your invention and describe how yours differs.

Materials and Methods: Describe in detail how you made your invention. Explain what materials were used and how you put them together to make your invention. Your report should be detailed enough so that someone would be able to repeat the steps and make your invention. Directions on how to use the invention are also necessary here. You must include a detailed drawing(s) of your invention.

Results and Discussion: This is the essence of your paper. Compare your results with theoretical values, published data, literature and related studies, commonly held beliefs, and/or expected results. Include a discussion of possible errors, statistics, graphs, pages with your raw collected data, etc. How did the data vary between repeated observations of similar events? How were your results affected by uncontrolled events? What would you do differently if you repeated this project? What other experiments should be conducted?

Conclusions: This discusses the potential applications, possible customer benefits, and the impact of innovation in solving problems and issues of today and tomorrow.

Acknowledgments: This part gives credit to those who have assisted you, including individuals, businesses, and educational or research institutions.

References/Bibliography: Your reference list should be written based on the APA (American Psychological Association) style formatting and citation.



**List of Forms and Documents Required for Submission
in All Levels of Competition for Secondary Level**

The following are the forms and manuscripts to be submitted in ALL levels of the competition:

1. Research Plan

2. Forms for all the Projects

- Checklist for Adult Sponsor
- Student Checklist (1A)
- Research Plan (NOTE: No need to attach the Research Plan Instructions)
- Approval Form (1B)
-
- Regulated Research Institutional/Industrial Setting Form (1C)

3. Forms depending on the type of research (e.g., involving humans, vertebrate animals, hazardous chemicals, etc.

- Qualified Scientist Form (2)
- Risk Assessment Form (3)
- Human Participants Form (4)
- Human Informed Consent Form
- Vertebrate Animal Form (5A)
- Vertebrate Animal Form (5B)
- Potentially Hazardous Biological Agents Risk Assessment Form (6A)
- Human and Vertebrate Animal Tissue Form (6B)
- Continuation Project Form (7)

4. Abstract (Maximum of 250 words)

The abstract should include the following:

- Purpose of the experiment
- Procedure
- Data conclusion
- The abstract may NOT include the following:

Acknowledgement

Work of procedures done by the mentor

5. Research Paper

6. Project Evaluation Form

7. Scanned copy of the logbook in PDF form

Handwritten signature

THE CONTEST/EVENTS AND ALLOCATION OF ENTRIES PER DISTRICT

ELEMENTARY LEVEL					
Contest Events		Category		Number of Participants	
	No. of Entry/ District	Individual	Team	Learners/ district	Coach per district
LEARNER CATEGORY					
1.Science in Action: Innovation and Application Challenge	1		/	3	1
2.Science Communication and Advocacy Contest	1		/	3	1
3.Science Investigatory Project Expo					
• Life Science	1	/		1	1
• Life Science	1		/	3	1
• Physical/Applied Science	1	/		1	1
• Physical/Applied Science	1		/	3	1
• Science Innovation Expo	1		/	3	1
• STEMtokperiments	1	/		1	1
TEACHER CATEGORY					
1. Science Teaching Excellence Challenge	1	/		1	
2.Digital Science Instructional Design Challenge-Individual Category	1	/		1	
3.Remedial Innovation Challenge – Individual Category	1	/		1	
PARENT LEARNER CATEGORY					
1.Science @Home Challenge	1		/	2	1
TOTAL				23	9
SECONDARY SCHOOLS		Individual	Team	Learners/ district	Coach per district
LEARNERS CATEGORY					
TUKLAS					
1.Life Science	2	/		2	2
2. Life Science	2		/	6	2
3. Physical Science	2	/		2	2
4. Physical Science	2		/	6	2
5. Robotics & Intelligent Machine-	2	/		2	2
6.Robotics & Intelligent Machine	2		/	6	2

7.Mathematics and Computational Science	2	/		2	2
8.Mathematics and Computational Science	2		/	6	2
Science Innvoation Expo					
1.SIE-Individual	2	/		2	2
2.SIE-Individual	2		/	6	2
SciMatik: Improvised Materials Challenge	1		/	3	1
TEACHERS CATEGORY					
1.Science Teaching Excellence Challenge	1	/		1	1
2.Digital Science Instructional Design Challenge	1	/		1	1
3.Digital Science Instructional Design Challenge	1	/		1	1
PARENT-LEARNER CATEGORY					
1.Science Challenge @Home	1		/	2	1
TOTAL				48	25

Schedule	Activities
September 15-19, 2025	Conduct of School Level SciLympics 2025
September 22-October 3, 2025	Conduct of District Level SciLympics 2025
October 6-8, 2025	Submission of SIP Write-Ups to the Division Office
October 16, 2025	Marinduque SciLympics 2025 for Elementary Level
October 17, 2025	Marinduque SciLympics 2025 for Secondary Level
October 21, 2025	Online Meeting with the Top 1 Winner for TUKLAS and Innovation Expo for the Secondary Level Category
October 21-31, 2025	Enhancement of Project Write-Ups
November 6-7, 2025	Division Cliniquing in Preparation for the Regional Submission
November 12, 2025	Submission of Write-ups to the Regional Office
November 25-28, 2025	Face-to-Face Regional Science & Technology Fair 2025



TIME	October 16, 2025
7:00-9:00	Registration Opening Program
9:00-12:00	LEARNER CATEGORY 1. Science in Action: Innovation and Application Challenge (Team Category) 2. Science Communication and Advocacy Contest 3. Science Investigatory Project Expo-Life Science Individual & Team 4. Science Investigatory Project Expo-Physical/Applied Science Individual & Team 5. Science Innovation Expo -Team Category TEACHER CATEGORY 1. Science Teaching Excellence Challenge -Individual Category 2. Digital Science Instructional Design Challenge-Individual Category 3. Remedial Innovation Challenge – Individual Category PARENT-LEARNER CATEGORY 1. Science @Home Challenge
12:30 -3:00	Continuation of the Competition
2:00-5:00	Awarding Ceremony

Note: Awarding of certificates will be after the conduct of each contest category. Chairperson of each category will facilitate the awarding in the designated venue/area.

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TIME	October 17, 2025
7:00-9:00	Registration Opening Program
9:00-12:00	LEARNER CATEGORY <i>TUKLAS: Science Fair</i> <i>1.Life Science -Individual Category</i> <i>2.Life Science-Team Category</i> <i>3.Physical Science-Individual Category</i> <i>4.Physical Science-Team Category</i> <i>5.Robotics & Intelligent Machine-Individual Category</i> <i>6.Robotics & Intelligent Machine-Team Category</i> <i>7.Mathematics and Computational Science- Individual Category</i> <i>8.Mathematics and Computational Science-Team Category</i> <i>Science Innvoation Expo</i> <i>1.SIE-Individual Category</i> <i>2.SIE- Team Category</i> <i>SciMatik: Improvised Materials Challenge -Team Category</i> TEACHER CATEGORY <i>1. Science Teaching Excellence Challenge -Individual Category</i> <i>2. Digital Science Instructional Design Challenge-Individual Category</i> <i>3. Remedial Innovation Challenge – Individual Category</i> PARENT-LEARNER CATEGORY <i>1.Science @Home Challenge</i>
12:30 -3:00	Continuation of the Competition
2:00-5:00	Awarding Ceremony

Note: Awarding of certificates will be after the conduct of each contest category. Chairperson of each category will facilitate the awarding in the designated venue/area.

POINT SYSTEM OF THE CONTEST

- The following point system will be used to determine the ranking of the participants in all the events of the MARINDUQUE SciLympics 2025:

Rank	Points
1	7
2	6
3	5
4	4
5	3
6	2
7	1
No Entry/DQ	0

- A **CHAMPION** will be declared for both the elementary and the secondary levels per category:
 - Learners Category;
 - Teachers Category; and
 - Parent-Learner Category.
- Best Performing District** for Elementary and Secondary levels will be declared after consolidating all the points earned in different categories.
- To determine the **Grand Champion**, all the points earned in the three (3) categories combined elementary and secondary level will be totaled and multiplied by its equivalent weighted scores (see the table below). The equivalent scores will be added up and ranked accordingly.

ELEMENTARY LEVEL		
LEARNER CATEGORY	TEACHER CATEGORY	PARENT-LEARNER CATEGORY
Science in Action (10%) Science Communication (10%) Science Fair (20%) Science Innovation Expo (10%) STEMTokPeriments (10%)	<i>Science Teaching Excellence Challenge</i> <i>Digital Science Instructional Design Challenge</i> <i>Remedial Innovation Challenge</i>	Science @Home
60%	30%	10%

SECONDARY LEVEL		
LEARNER CATEGORY	TEACHER CATEGORY	PARENT-LEARNER CATEGORY
TUKLAS (40%) Science Innovation Expo (10%) SciMATIK (10%)	<i>Science Teaching Excellence Challenge</i> <i>Digital Science Instructional Design Challenge</i> <i>Remedial Innovation Challenge</i>	Science @Home
60%	30%	10%

