



Republika ng Pilipinas
Kagawaran ng Edukasyon
REHIYON V - BICOL
TANGGAPANG PANSANGAY NG CATANDUANES

September 11, 2024

DIVISION MEMORANDUM
No. 433 s. 2024

**DIVISION SCIENCE AND TECHNOLOGY FAIR, AND ROBOTICS OLYMPICS
FOR SY 2024-2025**

To: Chief Education Supervisors, CID
Education Program Supervisors (Science and Mathematics)
Public Schools District Supervisors/In-Charge of the Districts
Public and Private Elementary and Secondary School Heads
All Others Concerned

1. Pursuant to Regional Memorandum No. 01019 s. 2024 Re: Regional Science and Technology Fair, and Robotics Olympics for School Year 2024-2025, this office through the Curriculum Implementation Division shall conduct the Division Science and Technology Fair, and Robotics Olympics for School Year 2024-2025 at Virac Pilot Elementary School on **October 5-6, 2024**.

2. This year's fair, themed, "Towards a Shared Vision: Exploring the Future for a Better Tomorrow," will continue to nurture and elevate learner's research, innovation, and creativity. It offers a vibrant platform for students to showcase their talents and accomplishments in science, mathematics, robotics, and research. The event also fosters forward-thinking, encouraging collaboration and the exchange of ideas to address global challenges, emphasizing the importance of shared responsibility and actionable steps in achieving long-term sustainable goals.

3. Anent to this, the following schedule shall be observed:

- Submission of the duly signed confirmation slip in soft copy of all interested participating schools using the attached template on or before September 20, 2024. The scanned copy of the confirmation slip shall be submitted at this email address: ninogerard.ceneta@deped.gov.ph. Participating school may also submit a hard copy at the CID Office. No school will be allowed to join the competition without submission of the confirmation slip on the date specified.
- Submission of the final entries in soft copies for the Division Scientific Review Committee Pre-Evaluation of research papers on October 2, 2024, until 5:00PM through this email address: ninogerard.ceneta@deped.gov.ph.
- Submission of three (3) hard copies in separate folders including all the attachments and needed forms one hour before the contest proper on the day of the science fair.



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- Division Science and Technology Fair, and Robotics Olympics on October 5-6, 2024
- Revision of the winning entries based on the suggestions/recommendations of the Division SRC on October 7-16, 2024
- Submission of revised winning entries of the division for submission to Regional Scientific Review Committee (SRC) Paper Evaluation on October 17, 2024
- Submission of Division Entries for Regional Scientific Review Committee (SRC) Paper Evaluation on October 21, 2024
- Regional Science and Technology Fair, and Robotics Olympics on November 13-15, 2024 at Legazpi City Convention Center

4. The participation of schools in the Division and Regional Competition shall be clustered into categories: Life Science, Physical Science, Robotics and Intelligent Machines, Mathematics and Computational Science, and Science Innovation Expo. Special categories are included to be participated by coaches and learners in the Robotics Olympics. Science Magic Show, Science Smart Kid and Odyssey of the Mind are also included. Major categories are further classified into subcategories to wit:

Life Science (Grades 9-12)		Physical Science (Grades 9-12)		Robotics & Intelligent Machines (Grades 9-12)		Mathematics & Computational Science (Grades 9-12)		Science Innovation Expo (Grades 9-12)		Maze Solving Robot		Line Follower Robot		Science Magic Show		Science SMART Kid		Odyssey of the Mind	
I	T	I	T	I	T	I	T	I	T	SHS	Coaches	JHS	STE/STEM	Key Stage 1 (Grades 1-3)	Key Stage 2 (Grades 4-6)				

5. All entries will be judged anchored on the given criteria during the Division Competition. The decision of the board of judges is final and irrevocable. A division bulletin will be issued to declare the winners. Declared first place winners in Robotics and Intelligent Machines Category, Mathematics and Computational Science and Science Innovation, Maze Solving Robot, Line Follower Robot, Science Magic Show, Science SMART Kid, and Odyssey of the Mind will automatically represent the division during the regional competition. The first-place winners at the division level in Life and Physical Sciences shall submit soft copies of the research papers and all other required documents (ISEF Forms) for the Regional Scientific Review Committee (SRC) paper evaluation.

6. The Science and Technology Fair Guidebook, references, and required templates for the research papers can be accessed through this google link: <http://bit.ly/sciencefairguidelinesandreferences> while the following documents are enclosed for the information and guidance of all concerned:

- Enclosure 1: Mechanics, Guidelines & Maximum Number of Participants per entry
- Enclosure 2: Matrix of Activities
- Enclosure 3: Confirmation Slip



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Enclosure 4: Technical Working Group

7. Travel and other incidental expenses related to the participation in the division level activity and regional level activity for the declared winners, coaches, and EPSs In-Charge may be charged to Local Funds/School MOOE, Division Funds, subject to availability of funds and relevant accounting & auditing rules and regulations. Likewise, service credits and or Compensatory Time Off (CTO) will be given to all the teachers and other non-teaching personnel that will be involved in the said activity on Saturday and Sunday.
8. For information, guidance, and compliance of all concerned.

By Authority of the OIC Schools Division Superintendent

Norlito
ATTY. NORLITO JR. P. AGUNDAY
Attorney III- Legal Office
Officer In-Charge
Office of the Schools Division Superintendent



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Enclosure 1 to Division Memorandum No. 433 s. 2024

MECHANICS AND GUIDELINES

A. Research Fair and Congress (Individual and Team Categories)

Qualification

- Grades 9 to 12 STE/STEM student.

Guidelines

- Entries for the Science Innovation Expo (SIE) must have already applied for and secured the Certificate of Patent before they will be accepted at the Division and Regional Fair. Likewise, SIE follows a different criterion for judging, hence the presentation should focus on product presentation, originality/creativity, community/ connection impact, market attractiveness, functionality, and technology validation.
- All entries shall have an exhibit display following the standards and specifications in the handbook. Materials for the display will not be provided by the organizer, hence, shall be the responsibility of the researcher/s.
Tuklas Research Paper Format will be followed (see Appendix 2 of the handbook). Display Format for all research entries shall follow the Project Board Dimensions (see Appendix 3, 5 and 6) in the handbook.
- Prepare a 5-minute presentation of the research focusing on the extended abstract: Purpose, Procedure, Results, and Conclusion. Q & A shall be at the discretion of the Board of Judges. Remember to follow the standards in preparing a PowerPoint presentation. Do not copy and paste the write-up in the slide decks.
- For the division entries to the regional competition, Approval of the Regional Scientific Review Committee is required for Life Science and Physical Science research. All other research declared as winners at the division level will automatically join the Regional Fair provided that all required forms are already complete.
- Both the Research Adviser and Researcher must have read and understood the International Rules for Pre-College Science Research: Guidelines for Science and Engineering Fairs 2024-2025 and the Guidebook for Science Fair.
- Guidance of all Required Forms can be found in Appendix 7 and 11 of the handbook.



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Criteria for Judging

Science Innovation Expo

Originality and Creativity:	30%
Community Connection and Impact:	20%
Market Attractiveness:	20%
Functionality and Technology Validation:	10%
Project Pitching/Product Presentation	10%
Utilization of Patent Information:	<u>10%</u>
	100%

Research Projects (Life Science, Physical Science, Robotics and Intelligent Machines and Mathematics and Computational Science)

Creative Ability:	30%
Scientific Thought/Engineering Goal:	30%
Thoroughness:	15%
Skill:	15%
Clarity:	<u>10%</u>
	100%

Best Presenter

Delivery:	20%
Organization (Logical Presentation):	20%
Content:	30%
Language:	15%
Visuals:	10%
Time Management:	<u>5%</u>
	100%

Best Poster Display

Content: (Accuracy, Clarity & Relevance)	30%
Visual Presentation: (Layout & Organization, Aesthetics & Design,	30%



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Use of Graphics)

Creativity & Innovation:	20%
Impact and Relevance:	20%
	100%

B. Line Follower Robot

Objective

The goal of this contest is for the robot to complete the course of black lines on a white background and reach the finish line in the shortest period.

Qualification

1. Junior High School students, composing a maximum of 3 members and 1 coach.
2. The first-place winner in the division competition shall join the regional competition. Only one (1) team shall represent the division.

Robot Requirements

1. Only one Arduino robot per team is allowed.
2. Robots should be within 25 cm x 25cm x 25cm in diameter.
3. The robot shall be self-contained (no remote control).
4. The robot shall be either two-wheeled (2WD) or 4 -wheeled (4WD).
5. The robots must have an accessible on and off switch. The power supply for the vehicle should be contained on board and should not exceed 12 volts.
6. The robot should be battery-operated.
7. A robot should be designed using an Arduino microcontroller or microprocessor. *(Teams may also use brands with Aduino core such as MBOT, Mranger, V3, Matrix, and/or Lafvin)*
8. Sensors allowed are only line and color sensors (*count is for 1 piece not set per sensor*). Maximum of three sensors.
9. Teams that will not follow the requirements and guidelines shall be disqualified.

Rules of the Competition

1. The robot must deal with the lighting conditions as they appear. That is, room lighting, and window drapes will be set as desired by the judges and will not be modified for individual contestants. Also, flash photography and IR focusing cameras will be allowed' unless the judges deem that such activities are interfering with the ability to hold the event in general.
2. The arena will be open 1 hour before the competition, and 5 minutes of practice shall be given to each team to practice and adjust the robot.
3. No robot adjustment shall be done during the start of the competition.



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4. The time will be measured from the moment the robot starts and finishes.
5. Three chances will be given to each team, and the shortest time will be considered.
6. The team that has the shortest time to complete the map will be the winner.
7. In case the robot wanders off the arena surface, it shall be disqualified.
8. If the robot cannot finish the map, the points equivalent to the distance traveled by the robot will be acquired.
9. In case of a tie, a repeat race may be ordered by the organizer. The decisions of all officials regarding these rules and the conduct of the event shall be final.

Organization:

1. The robot must be registered before the competition. The registration shall include technical inspection and marking of the robot with a number sticker.
2. Technical inspection must be completed with the time given by the organizer.
3. No changing of batteries shall be done during the competition. They can only change batteries during the Practice Set.
4. All questions and problems arising during the competition shall be solved and decided by the referee.
5. The decision of the contest facilitators/judges shall be final and irrevocable.

C. Maze Solving Mission

Objectives:

In this competition, the mission of the autonomous mobile robot is to navigate the maze from specified starting corner to finish line in the shortest possible time avoiding the obstacles along the way.

Qualification:

1. Senior High School students, composing a maximum of 3 members and 1 coach.
2. The winner in the division competition shall join the regional competition. Only one (1) team shall represent the division.

Robot Requirements:

1. Only one Arduino robot per team is allowed.
2. Robots should be within 22 cm x 22 cm x 22 cm in diameter.
3. The robot shall be self-contained (no remote control).
4. The robot shall be either two-wheeled (2WD) or 4 -wheeled (4WD).



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5. The robots must have an accessible on and off switch. The power supply for the vehicle should be contained on board and should not exceed 12 volts.
6. The robot should be battery-operated.
7. A robot should be designed using an Arduino microcontroller or microprocessor. (*Teams may also use brands with Arduino core such as MBOT, MRanger, V3, Matrix and Lafvin*)
8. There will be no restrictions in sensor usage, as long as it is deemed helpful for the robot to complete the maze.
9. Teams that will not follow the requirements and guidelines shall be disqualified.

Rules for Maze Solving Mission:

1. The maze is composed of 25 cm x 25 cm unit squares blocks.
2. The sides of the maze walls are white and black, the tops of the walls are red, and the floor is white.
3. **Warning:** Do not assume that the walls are consistently white or black, or the tops of the walls are consistently red, or that the floor is consistently white. Fading may occur, parts from the mazes may be used. Do not assume the floor provides a given amount of friction.
4. The robot must deal with the lighting conditions as they appear. That is, room lighting and window drapes will be set as desired by the judges and will not be modified for individual contestants. Also, flash photography and IR focusing cameras will be allowed unless the judges deem that such activities are interfering with the ability to hold the event in general.
5. The start of the maze is located at one corner of the four corners.
6. Multiple paths to the destination square are allowed and are to be expected.
7. Maze map shall be introduced during the competition proper. Thus, coding for the robot shall be done on the venue.
8. The arena will be open 30 minutes before the competition.
9. No robot adjustment shall be done during the start of the competition.
10. Robots and Laptop used for coding will be quarantined before the official start of the game.
11. Coaches are NOT allowed near the participants during practice and competition proper.
12. The time will be measured from the moment the robot starts and finishes.
13. Three chances will be given to each team, and the shortest time will be considered.
14. The team that has the shortest time to complete the map will be the winner.



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15. If the robot cannot finish the map, the points equivalent to the distance traveled by robot will be acquired.
16. In case of a tie, a repeated race may be ordered by the organizers.
17. The decisions of all officials regarding these rules and the conduct of the event shall be final.

Organization:

1. The robot must be registered before the competition. The registration includes technical inspection of the robot and marking the robot with number sticker.
2. Technical inspection must be completed by the time specified by the organizer.
3. No changing of batteries shall be done during the competition. They can only change batteries during the Practice Set.
4. All questions and problems arising during the competition shall be solved and decided by the referee.
5. The decision of the contest facilitators/judges shall be final and irrevocable.

D. Science SMART Kid Competition (Primary Learner)

Objective:

The goal of this competition is to showcase the science talent of the smartest and most talented learner highlighting their knowledge and unique abilities in science in a fun, inspiring and enjoyable manner.

Qualification:

A Key Stage 1 learner (grades 1-3) aged 6-8 years old who possesses extra-ordinary science talent and interest in STEM.

Mechanics:

The competition consists of two parts:

1. **Showdown of Science Talent (3-5 minutes):**
 - o Each contestant will have 3-5 minutes to introduce themselves and demonstrate a science talent (simple science experiment, concept, or activity of their choice).
 - o This part shall allow contestants to showcase their scientific knowledge in a fun and creative way.
2. **Interview and Q&A:**
 - o After the demonstration, judges will engage the contestants in an interview, asking age-appropriate science-related questions.



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- This segment will assess the contestant's understanding of science, their ability to think on their feet, and their confidence in answering the questions.

Judging Criteria:

1. **Understanding of Science (40%)**
 - How well the child explains science ideas.
 - Correctness of answers or explanations.
2. **Creativity (30%)**
 - How fun or original the science presentation
 - Presentation of science in a fun and engaging way.
3. **Confidence and Stage Presence (20%)**
 - How confidently the child speaks and responds to questions.
 - Ability to engage the audience with enthusiasm and energy.
4. **Personality and Charisma (10%)**
 - How much the child's personality shines through.
 - Ability to interact with judges and audience members in a relatable and fun manner.

Organization

1. All presentations must be safe, with no dangerous materials or experiments.
2. Any equipment or materials needed for presentation should be prepared in advance and checked for safety.
3. The decision of the board of judges shall be final and irrevocable.

E. Science Magic Show Competition (JHS/SHS STEM Learners)

Objective

The Science Magic Show Competition aims to ignite curiosity and excitement about science by blending entertainment with science magic. Students will demonstrate scientific principles in a fun and engaging way, encouraging a deeper understanding of how science shapes the world around us. The competition seeks to foster creativity, enhance public speaking and presentation skills, and inspire participants and audiences alike to explore and appreciate the magic within science.

Qualification:

1. STE/STEM students who are passionate about showcasing their knowledge of science through creative and enjoying performance.



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2. A maximum of 3 members.
3. The winner in the division competition shall join the regional competition. Only one (1) team shall represent the division.

Mechanics/Performance Guidelines

- Each team will have a total of **5 minutes (including entrance and exit)** to showcase their **science magic trick**.
- The performance shall include:
 - A brief introduction describing the science magic act, the materials used and the science principles involved.
 - A visual demonstration of the science magic.
 - A clear and simple explanation of the **science principles** behind the magic trick (e.g., chemistry, physics, biology, etc.).
- The magic show should be engaging, entertaining, and educational, capturing both the mystery of magic and the excitement of science.

Judging Criteria:

Contestants will be judged based on the following criteria:

- **Scientific Explanation (40%):**
How well the contestant explains the science behind the magic trick, including accuracy and clarity of the explanation.
- **Creativity and Innovation (30%):**
Originality of the science magic trick, uniqueness, and the level of creativity in presentation.
- **Showmanship (20%):**
How engaging, confident, and entertaining the contestants are during the performance.
- **Audience Impact (10%):**
How well the magic show captures the audience's attention and generates excitement or curiosity.

Organization and Safety Requirements

- Each performance is strictly limited to **5 minutes**. A warning will be given at the 4-minute mark.
- Exceeding the time limit will result in point deductions to be agreed by the board of judges.
- Contestants are responsible for bringing their own materials and equipment for the performance.
- All science magic tricks must be **safe** and follow safety guidelines.



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- No dangerous chemicals, open flames, or hazardous materials are allowed.
- Participants must ensure that their equipment is secure and safe for the audience and themselves.
- The decision of the board of judges shall be final and irrevocable.

F. Odyssey of the Mind (Intermediate Category)

Objective:

Odyssey of the Mind is a creative problem-solving program in which teams devise and present solutions to complex, long-term problem over several months. This challenge involves elements such as writing, design, construction, and presentation.

Qualifications:

1. The competition is open to Grades 4-6 learners of both public and private high schools in the Philippines.
2. The team will consist of 3 members and 1 coach.

Rules of the Competition:

1. The participants must be in the competition area 15 mins before the competition.
2. The teams will receive an orientation from the assigned facilitator covering the guidelines and mechanics.
3. No coaching shall be done during the competition proper.
4. The competition will feature two distinct stations from these four categories: Life Science, Chemistry, Physics, and Earth Science.
5. At each station, teams will be provided with materials, which they may choose to use entirely, partially, or not at all, to develop and present innovative, on-the-spot solutions tailored to the specific field of science assigned to them.
6. Teams will have 4 minutes at each station to complete the task, followed by an additional 3 minutes to present their work to the judges and another 3 minutes for Q & A.
7. The teams will be judged based on the following criteria with suggested percentages:
 - **Creativity and Originality (30%):** Assess how unique and inventive the solution is. This includes originality in ideas, approaches, and the overall concept.
 - **Problem-Solving Process (20%):** Evaluate the effectiveness and thoroughness of the approach taken to solve the problem. This involves how well the team addressed the challenge and the logical structure of their solution.
 - **Presentation (20%):** Judge the clarity, engagement, and organization of the team's presentation. This includes how well the team communicates their solution and captivates the audience.



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- **Technical Execution (15%):** Review the functionality and craftsmanship of the technical aspects of the solution. This measures how well the practical elements are executed.
 - **Teamwork and Collaboration (10%):** Examine how well the team worked together and whether the presentation reflects equal participation and effective collaboration among members.
 - **Adherence to Rules and Constraints (5%):** Ensure that the team followed all competition rules and constraints. This includes compliance with guidelines and limitations specified for the problem.
8. The decisions of all officials regarding these rules and the conduct of the event shall be final.

Maximum Number of Participants per Event

Event	Student	Coach	Total
o Life Science Individual	1	2	3
o Life Science Team	3	2	5
o Physical Science Individual	1	2	3
o Physical Science Team	3	2	5
o Robotics & Intelligent Machines Individual	1	2	3
o Robotics & Intelligent Machines Team	3	2	5
o Mathematics & Computational Science Individual	1	2	3
o Mathematics & Computational Science Team	3	2	5
o Science Innovation Expo Individual	1	2	3
o Science Innovation Expo Team	3	2	5
o Science SMART Kid	1	1	2
o Odyssey of the Mind	3	1	4
o Science Magic Show	3	2	5
o Line Tracing Robot (JHS)	3	1	4
o Maze Solving Mission Robot (SHS)	3	1	4
o Maze Solving Mission Robot (coaches category)	2	1	3
Total			= 62

Note: Life and Physical Science is still subject to SRC Evaluation before they can join the Regional Fair



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Enclosure 2 to Division Memorandum No. 433 s. 2024

**Division Science and Technology Fair, and Robotics Olympics for School Year
 2024-2025**
MATRIX OF ACTIVITIES
October 5-6, 2024

October 4	October 5, 2024	October 6, 2024
<p>1:00 PM onwards</p> <p>Preparatory conference and workshops of TWG</p>	<p>7:30-8:00 Opening Program</p> <p>8:00-12:00 (AM) Contest Proper</p> <p>1:00-4:30 (PM) Contest Proper</p> <p>Research Fair Venue: Gabaldon Building</p> <p>Line follower Robot and Maze Solving Mission Venue: ICT Room</p> <p>Note: All contests will be conducted simultaneously.</p> <p>4:30-5:00 PM Awarding of Winners</p>	<p>7:30-8:00 Preliminaries</p> <p>8:00-12:00 (AM) Contest Proper</p> <p>1:00-4:00 (PM) Contest Proper</p> <p>Science Magic Show Competition Venue: Gabaldon Building</p> <p>Science SMART Kid (Primary Learner) Venue: ICT Room</p> <p>Odyssey of the Mind Venue: Gabaldon Building</p> <p>Note: All contests will be conducted simultaneously. 4:30-5:00PM Awarding and Closing</p>



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Enclosure 3 to Division Memorandum No. 433 s. 2024

**Division Science and Technology Fair, and Robotics Olympics
 for SY 2024-2025
 CONFIRMATION SLIP**

Name of School : _____

Event/Category : _____

Name of Contestant/s : _____

: _____

: _____

Name of Coach/es : _____

: _____

Contact Number : _____

Email Address of the Coach: : _____

Prepared by:

Name and Signature of the Coach

Noted:

Name and signature of the School Head



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Enclosure 4 to Division Memorandum No. 433, s. 2024

TECHNICAL WORKING GROUP

❖ *Research Fair*

Chairperson: Niño Gerard C. Ceneta
Co-Chairperson: Jezrahel T. Omadto
Members: Imaculate T. Latorre
Caraol P. Gil

❖ *Line Follower Robot and Maze Solving Mission*

Chairperson: Janet B. Sarmiento
Members: Jake Sarmiento
Marjhon M. Tabuzo
Celeste Tria

❖ *Science Magic Show Competition*

Chairperson: Nino Gerard C. Ceneta
Members: Jesyca V. Barro
Imaculate T. Latorre

❖ *Science SMART Kid Competition*

Chairperson: Jezrahel T. Omadto
Members: Imaculate T. Latorre
Carol P. Gil

❖ *Odyssey of the Mind:*

Chairperson: Jose Roy S. Aguilar
Members: Jocen I. Soriao
Jogene Allily San Juan



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