



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF BATAAN

DIVISION MEMORANDUM

No. 412 s. 2024

OCT 14 2024

DIVISION SCIENCE AND TECHNOLOGY FAIR 2024

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

1. This Office, through the Curriculum Implementation Division announces the conduct of Division Science and Technology Fair (DSTF) 2024 with the theme, "Towards a Shared Vision: Exploring the Future for a Better Tomorrow" on November 9, 2024 and November 16, 2024 at Pablo Roman National High School, Pilar, Bataan, and Bonifacio Camacho National High School, Abucay, Bataan, respectively.

2. The Division Science and Technology Fair 2023 aims to:

- a) foster interest in science and technology among the youth, encouraging a culture of innovation and problem-solving;
- b) recognize and highlight the most creative and innovative student research, preparing representatives for the Regional Science and Technology Fair (RSTF) 2024;
- c) provide a venue for learners to present projects that address pressing issues such as food safety, water conservation, renewable energy, and disaster mitigation;
- d) facilitate competitions that promote scientific understanding and creativity, such as video creation, digital poster making, and science experiments; and conduct events that strengthen students' understanding of scientific concepts through engaging activities like quiz bees and hands-on experiments.

3. The participation of schools in the DSTF 2024 shall be clustered into the following categories:

- a) **Tuklas.** *A Research Project Fair-* A Science, Technology, Engineering and Mathematics (STEM) research competition that provides opportunities for Junior and Senior High School learners to showcase their research projects based on their field of interest and/or real-world problems, issues, and concerns;
 - i. Life Science,



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- ii. Physical Science,
 - iii. Robotics and Intelligent Machines, and
 - iv. Math and Computational Science.
- b. **Innovation Expo.** *GAWAD AgLiTekno* - A Technology Innovation competition that aims to recognize the most creative and market-viable project addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture, and environment.
 - c. **Siyensikula.** An original video creation competition.
 - d. **#STEMTokperiments:** A Tiktok science experiment competition.
 - e. **Digital Poster Making.** An on-the-spot original digital poster creation comprising a digital image using various design tools/applications.
 - f. **Science Quiz Bee.** The Science Quiz Bee is a written examination for Grades 3-12 where students answer a series of science-based questions individually. These questions cover a range of topics, including biology, chemistry, physics, earth science, and environmental science, and vary in difficulty according to grade level.
 - g. **Hands-on-Minds On.** An interactive event designed to enhance students' scientific understanding through hands-on activities, encouraging practical application of knowledge and fostering collaboration among participants.
 - h. **Tawag ng Kalikasan.** A solo singing contest that allows students to showcase their musical talents while raising awareness of science, technology, and environmental issues through thematic performances.
4. Each district will hold a District Science & Technology Fair 2024, led by the Public Schools District Supervisor as Overall Chair. The Elementary School Principal Coordinator will serve as Chair, with the Science Department Head and a Private School Administrator/Coordinator acting as Vice Chairs. The organizing team will also include Junior and Senior High School Science Coordinators and a Private School Science Coordinator as Members to ensure a collaborative and comprehensive event.
5. The following categories will undergo District Level Elimination to select the district representatives: Quiz Bee (Grades 3-12), STEMtoperiments, Digital Poster, Hands-on-Minds-On (Elementary), and Tawag ng Kalikasan. Additionally, Tuklas and Hands-on-Minds-On (Junior High School) will advance directly to the Division level.
6. The official participants from each district for Elementary Level, Junior and Senior High School to the DSTF 2024 shall be the District/School Rank winner/s.
7. All student participants are encouraged to wear their official school uniforms with identification (IDs) during the event. In the Hands-on-Minds On contest, participants



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should wear laboratory gowns for safety and to reflect the scientific focus of the activities.

8. The participation of teachers and students shall be subject to the no-disruption-of classes policy stipulated in DO No. 9, s. 2005 titled Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith and the Policy on Off-campus Activities stated in DO No. 66, s. 2017, and DO 19, s. 2008 titled Implementation of No Collection Policy in All Public Elementary and Secondary Schools

9. Expenses to be incurred in the DSTF 2024 shall be charged to School Maintenance and Other Operating Expenses (MOOE) and other local funds subject to usual accounting and auditing rules.

10. Service credit for teaching personnel and Compensatory Time-Off (CTO) for non-teaching personnel will be granted per DepEd Order No. 53, s. 2003 entitled "Updated Guidelines on Grant of vacation Service Credits to Teachers, and Civil Service Commission-Department of Budget and Management Joint Circular No. 2, s. 2015, re: Policies and Guidelines on Overtime Services and Overtime Pay for Government Employees, respectively.

11. Attached are Number of participants per District/School, and Contest Mechanics and Guidelines, for reference and guidance.

12. Immediate and wide dissemination of this Memorandum is earnestly desired.


CAROLINA S. VIOLETA, EdD, CESO V

 Schools Division Superintendent 

Encls.: as stated

Reference:

To be indicated in the Perpetual Index
Under the following subjects:

CONTEST
RESEARCH
SCIENCE FAIR

 212

October 8, 2024



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Maximum Number of Participants

2024 Division Science and Technology Fair			
"Towards a Shared Vision: Exploring the Future for a Better Tomorrow"			
No	Event/Category	Maximum Number of Participants	
	Science Quiz Bee (Grades 3-12)	Participant	Grade Level
1	Grade 3	3	Grade 3
2	Grade 4	3	Grade 4
3	Grade 5	3	Grade 5
4	Grade 6	3	Grade 6
5	Grade 7	3	Grade 7
6	Grade 8	3	Grade 8
7	Grade 9	3	Grade 9
8	Grade 10	3	Grade 10
9	Grade 11	3	Grade 11
10	Grade 12	3	Grade 12
11	Life Science-Individual	1	Grade 9-12
12	Life Science-Team	3	Grade 9-12
13	Physical Science-Individual	1	Grade 9-12
14	Physical Science-Team	3	Grade 9-12
15	Robotics and Intelligent Machines-Individual	1	Grade 9-12
16	Robotics and Intelligent Machines-Team	3	Grade 9-12



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CSC PRIME-HRM BRONZE AWARD
 2021-2022
 DEPARTMENT OF QUALITY MANAGEMENT DEVELOPMENT



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17	Math and Computational Science- Individual	1	Grade 9-12
18	Math and Computational Science- Team	3	Grade 9-12
19	Siyensikula: Secondary	3	Grade 9-12
20	Innovation Expo: Gawad Aglitekno- Individual	1	Grade 9-12
21	Innovation Expo: Gawad Aglitekno- Team	3	Grade 9-12
22	STEMTokperiments-Elementary	3	Grade 4-6
23	STEMTokperiments-Junior HS	3	Grade 7-10
24	STEMTokperiments-Senior HS	3	Grade 11-12
25	Digital Poster Making-Junior HS	1	Grade 7-10
26	Digital Poster Making-Senior HS	1	Grade 11-12
27	HOMO-Elementary	2	Grade 4-6
28	HOMO-Junior HS	2	Grade 7-10
29	Tawag ng Kalikasan-Elementary	1	Any Grade Level
30	Tawag ng Kalikasan-Secondary	1	Grade 7-12



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Contest Mechanics and Guidelines

Hands-On-Minds-On

This interactive activity is aimed at fostering curiosity and active learning through practical, hands-on science challenges. Each district will be represented by 2 elementary students and 2 junior high school students (from any grade level), who will engage in tasks that emphasize both critical thinking and collaborative problem-solving.

The activity will be conducted in two rounds:

First Round (Elimination Round): All participants will compete, and their performance will be scored.

Second Round (Final Round): The top 5 highest scorers from the first round will advance to the final round to determine the overall winners.

Tawag ng Kalikasan: Solo Singing Contest

This solo singing contest, Tawag ng Kalikasan, is an exciting opportunity for students to showcase their musical talents while promoting awareness of science, technology, and environmental issues. Participants may choose to perform with or without live accompaniment or use pre-recorded instrumental tracks. Each district will have 1 representative from the elementary level and 1 representative from the secondary level (any grade level) who will perform songs related to themes.

The contest will be conducted in two rounds:

First Round (Elimination Round): All participants will perform, and judges will score each contestant based on the criteria.

Second Round (Final Round): The top 5 performers from both the elementary and secondary levels will advance to the final round, where they will compete to be the overall winners. The decision of the judges is final and irrevocable.

Criteria for Judging

Vocal Quality (50%) – Clarity, pitch, tone, and vocal range

Relevance to Theme (15%) – Song choice and message must align with science, technology, and environmental themes

Stage Presence (15%) – Confidence, charisma, and engagement with the audience

Interpretation and Expression (10%) – Emotional connection and creativity in delivering the song's message

Overall Impact (10%) – The performance's memorability and lasting impression

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STEMtoksperiment

An innovative video-based contest where students demonstrate exciting and educational STEM experiments, similar to popular social media science videos. Each entry should be a short, engaging, and informative video, creatively showcasing a science, technology, engineering, or math experiment or concept. The goal is to make STEM topics accessible and fun while inspiring curiosity in viewers. Videos should be 1-3 minutes long, capturing both the process and explanation of the experiment. The decision of the judges is final and irrevocable.

Criteria for Judging

Scientific Accuracy (30%)

The experiment or concept should be accurately explained, with clear and correct scientific principles.

Creativity and Originality (25%)

The presentation of the experiment should be unique, innovative, and original, showcasing creative ways to engage viewers.

Clarity and Presentation (20%)

The video should be well-organized, easy to understand, and effectively communicate the steps and scientific concepts.

Audience Engagement (15%)

The video's ability to captivate and interest viewers, using visuals, enthusiasm, and overall appeal to make the content enjoyable.

Production Quality (10%)

The technical quality of the video, including clear visuals, sound quality, and overall editing, should enhance the viewing experience.

Digital Poster Making Contest

The Digital Poster Contest encourages students to express their understanding of science, technology, and environmental themes through digital art. Participants are tasked with creating a digital poster that effectively communicates a meaningful message related to these themes. Students may use various digital design software such as Adobe Photoshop, Illustrator, Canva, or any other digital art tools they prefer. The poster should creatively incorporate graphics, text, and visuals to inspire awareness and understanding of scientific or environmental issues. The decision of the judges is final and irrevocable.



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Criteria for Judging

Relevance to Theme (30%)

The poster's content should clearly relate to the themes of science, technology, or the environment, effectively conveying a meaningful message.

Creativity and Originality (25%)

The design should be unique, innovative, and imaginative, showcasing the artist's original ideas and creative approach.

Visual Impact (20%)

The overall aesthetic appeal of the poster, including use of color, layout, and composition, should create a strong visual impression.

Clarity and Readability (15%)

Text and visuals should be clear, easy to understand, and well-organized, ensuring the message is easily accessible to viewers.

Technical Skill (10%)

The poster should demonstrate technical proficiency in digital design, with attention to detail and effective use of digital tools and techniques.

Siyensikula

Siyensikula is a science-themed short film contest where students create a video that combines storytelling with scientific concepts. Each film should creatively explore themes related to science, technology, or environmental issues, engaging the audience through compelling visuals, narratives, and scientific insights. The goal is to inspire viewers to think critically about science and its role in society. Entries should be 3-5 minutes long, blending creativity with scientific knowledge. The decision of the judges is final and irrevocable.

Criteria for Judging

Scientific Accuracy (30%)

The scientific concepts or issues portrayed should be accurate and well-researched, adding educational value to the film.

Relevance to Theme (25%)

The film should address a scientific, technological, or environmental issue, presenting it in a way that highlights its importance and relevance.



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Creativity and Originality (20%)

The storyline, concept, and presentation should be innovative and unique, demonstrating a fresh approach to exploring science.

Narrative and Engagement (15%)

The storyline should be clear, engaging, and emotionally compelling, with a strong narrative flow that captivates the audience.

Technical Quality (10%)

The film should exhibit good production quality, including sound, visuals, editing, and overall presentation, enhancing the viewing experience.

Overall Performance

The Ranking System is designed to evaluate the overall performance of districts based on their scores in a competitive context. Each district is awarded points according to their rank, with the first-place district receiving 6 points and subsequent ranks receiving decreasing points down to 1 point for sixth place up to the last rank. Districts that do not participate receive 0 point. The total points accumulated will determine the overall ranking, with the highest score reflecting the best performance.

Rank	Points
1st	6
2nd	5
3rd	4
4th	3
5th	2
6th	1
No Entry	0



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