



Republic of the Philippines  
**Department of Education**  
REGION III-CENTRAL LUZON



**DIVISION MEMORANDUM**

No. 393, s. 2023

November 07, 2023

**DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF) 2023**

- To: Assistant Schools Division Superintendents  
Public School District Supervisors  
School Heads/Administrators, Public and Private Secondary Schools  
All Others Concerned
1. The Department of Education (DepEd) Angeles City through the Curriculum Implementation Division (CID) announces the conduct of the **Division Science and Technology Fair (DSTF) 2023**, with the theme **“Rebuilding Resilient Communities: Embracing Science and Technology for a Sustainable Tomorrow”** on **November 15, 2023**. The division screening and evaluation process of the submitted entries will be held on **November 12 to 14, 2023**. The awarding ceremony of the DSTF and announcement of the finalists to the Regional Science and Technology Fair (RSTF) will be on **November 15, 2023**, Gabaldon Building, Division Office.
  2. All posters of the qualified entries shall be put up on **November 14, 2023**, from 1:00 P.M. onwards. The assigned committee will check the posters to ensure adherence to the prescribed Physical Project Board Dimension.
  3. The Color and Letter-Number Codes for the Different Contest Categories are provided in **Enclosure No. 1**.
  4. This year’s DSTF features four (4) major activities namely:
    - a. **Tuklas: A Research Project Fair-** A 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.
    - 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. **Digital Poster Making:** An on-the-spot original digital poster creation comprising a digital image using various design tools/applications.



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- d. **Siyensikula**: An original video creation competition.
  - e. **#STEMTokperiments**: A Tiktok Science Experiment Competition.
5. The Siyensikula and #STEMTokperiments are for **showcasing purposes** only. Each school shall upload one for Siyensikula and one for #STEMTokperiments using the file name format: School\_Siyensikula. The link to the one drive will be given later to the School Science Coordinators.
6. The official participants from each school at the Division Science and Technology Fair shall only be the **Rank 1** School Winners in each category whose entries have been approved by the School Scientific Review Committee (SSRC). Substitutes shall not be allowed. The description and the maximum number of official participants are the following:

<b>Maximum Number of Student-Participants per Division</b>	
<b><i>Life Science Category (4)</i></b>	
Individual	1
Team	max of 3
<b><i>Physical Science Category (4)</i></b>	
Individual	1
Team	max of 3
<b><i>Robotics and Intelligent Machines Category (4)</i></b>	
Individual	1
Team	max of 3
<b><i>Mathematics and Computational Science Category (4)</i></b>	
Individual	1
Team	max of 3
<b><i>Science Innovation Expo (4)</i></b>	
Individual	1
Team	max of 3
<b>TOTAL</b>	<b>20</b>

7. The guidelines, standards, parameters, and process stipulated in the School, Division, Region, and National Science and Technology Fair Handbook shall guide student researchers, teachers, school heads.
8. The official participants in the first phase of the fair are the first-place school winners per category of the Research Competitions and Science Innovation Expo, while for the second phase are the proponents and research advisers of investigatory projects approved by the Division Scientific Review Committee (DSRC) and the top qualifiers of the Science Innovation Expo. School





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Head/Science Department Heads and other official delegations in the said competitions are also allowed to attend.

9. Food, transportation, and other incidental expenses of coaches, contestants, and other official participants shall be charged against the School MOOE/Local Funds subject to the usual accounting and auditing rules and regulations.
10. The School Heads are requested to submit to the Division Office, through the email address [gemima.estrabillo@deped.gov.ph](mailto:gemima.estrabillo@deped.gov.ph), the reports using the format found in the handbook on or before **November 13, 2023**. All School entries shall be in both printed (three copies ring bind) and electronic (PDF file via Flashdrive). *Failure to submit the report and projects on time shall **disqualify** the school from participating in the division fair.*
11. Winners in the different contests/categories will be grouped and shall prepare their cheerful and lively Shoutout Audio Visual Presentation (AVPs) in not more than 1 minute. The shoutout should be submitted on or before **November 17, 2023**, via One Drive through the link which will be shared with the group coach later. The best shoutout will be evaluated in terms of Originality and Creativity (40%) and Delivery/Execution (60%). This will be the Division entry in the RSTF.
12. The following documents are enclosed for information and guidance of all concerned:

Enclosure No. 1	Category Code & Color of the Side and Back Cover per
Enclosure No. 2	Digital Poster-Making Mechanics
Enclosure No. 3	Siyensikula Mechanics
Enclosure No. 4	#STEMTokperiments Mechanics
Enclosure No. 5	DSTF Technical Working Committee
Enclosure No. 6	DSTF 2023 Program Matrix
Enclosure No. 7	School, Division, Region, and National Science and Technology Fair Handbook
13. For concerns and inquiries, you may contact Gemima A. Estrabillo, EdD, Education Program Supervisor- Science at [gemima.estrabillo@deped.gov.ph](mailto:gemima.estrabillo@deped.gov.ph).
14. Immediate and wide dissemination of and strict compliance with this Memorandum is earnestly desired.

  
**RONALDO A. POZON, PhD, CESO V**  
Schools Division Superintendent

Encls.: As stated  
References: DO No. 21, s. 2019



Jesus St., Brgy. Pulungbulu, Angeles City 2009  
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To be indicated in the Perpetual Index  
under the following subjects:

DIVISION SCIENCE AND TECHNOLOGY FAIR  
SCHOOLS                      STUDENTS

TEACHERS

CID/EPS Science  
November 7, 2023



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Enclosure No. 1 to Division Memorandum No. 393 s. 2023

**SCIENCE AND TECHNOLOGY FAIR (RSTF) 2023**

Color and Letter-Number Codes for the Different Contest Categories (for coding of hard copies and CDs of the soft copies of the manuscripts/paper reports for the different contest categories)

School CODE	CONTEST CATEGORY CODE & COLOR OF THE SIDE AND BACK COVER OF THE FOLDER					
	Life Science (LS)		Physical Science (PS)		Robotics & Intelligent Machines (RIM)	
	Individual Green	Team Yellow	Individual Blue	Team Orange	Individual Pink	Team Brown
ACSci-001	LS-I-ACSCI-001	LS-T-ACSCI-001	PS-I-ACSCI-001	PS-T-ACSCI-001	RIM-I-ACSCI-001	RIM-T-ACSCI-001
FGNMHS-002	LS-I-FGNMHS-002	LS-T-FGNMHS-002	PS-I-FGNMHS-002	PS-T-FGNMHS-002	RIM-I-FGNMHS-002	RIM-T-FGNMHS-002
ACNHS-003	LS-I-ACNHS-003	LS-T-ACNHS-003	PS-I-ACNHS-003	PS-T-ACNHS-003	RIM-I-ACNHS-003	RIM-T-ACNHS-003
Private Schools - 004	LS-I-Private-004	LS-T-Private-004	PS-I-Private-004	PS-T-Private-004	RIM-I-Private-004	RIM-T-Private-004

School CODE	CONTEST CATEGORY CODE & COLOR OF THE SIDE AND BACK COVER			
	Mathematics and Computational Science (MCS)		Science Innovation Expo (SIE)	
	Individual Red	Team Purple	Individual Light Blue	Team Dark Blue
ACSci-001	MCS-I-ACSci-001	MCS-T-ACSci-001	SIE-I-ACSci-001	SIE-T-ACSci-001
FGNMHS-002	MCS-I-FGNMHS-002	MCS-T-FGNMHS-002	SIE-I-FGNMHS-002	SIE-T-FGNMHS-002
ANNHS-003	MCS-I-ACNHS-003	MCS-T-ACNHS-003	SIE-I-ACNHS-003	SIE-T-ACNHS-003
Private-004	MCS-I-Private-004	MCS-T-PrivateS-004	SIE-I-Private-004	SIE-T-Private-004

**NOTE: The letter-number code should be encoded on the sticker paper. The font size is 48 while the font is Bookman Old Style and should be placed on the upper right-hand corner of the transparent cover of the research manuscript and paper invention report.**



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Enclosure No. 2 to Division Memorandum No. 393 s. 2023

**DIGITAL POSTER MECHANICS**

1. This **on-the-spot competition** is open to all Grade 9 to 12 students from both Public and Private Schools in the Division. All participants must submit before the committee. a copy of their official school ID and/or any certification as a bonafide student in case of unavailability of the school ID.
2. The participant from each school will make a digital poster in not more than 2.5 hours. Once the time is up, the participants will be given 5 minutes to submit the digital poster to One Drive through the link which will be shared later. The competition will commence at 10:00 A.M.
3. The participant should bring a laptop, tablet, digital pen, extension cords, and other related materials. The laptop must be cleared of any pre-work materials made before the activity except for software installations which are needed in order to maximize the allotted time. Each participant may also bring broadband in case of the use of internet connectivity.
4. The poster must be A4 Size (8.27 × 11.69 inches) in Portrait or Landscape orientation and in JPEG/PNG Format; with a resolution of 150 dpi; Portrait Orientation, RGB Color Mode.
5. The participants may use any Editing software such as Adobe Photoshop and/or Adobe Illustrator, Canva, paint, etc.
6. Any artwork in the poster must be in original design. Poster designs containing clip art will not be considered by the board of judges. The participant will be held accountable for any issues that may arise with regard to the originality and authenticity of the design.
7. A one-page explanation and description of the artwork (in ENGLISH or TAGALOG) limited to 250-300 words must be attached on a separate sheet upon submission of the entry. The composition must be encoded in an A4 size paper, size 12, and Bookman Old Style. The participant should include the correct entry code in the upper part of the one-page explanation.
8. All entries will be shown to the audience during the event.
9. All entries along with the one-page explanation and description must be uploaded to One Drive through the link which will be shared later and must follow the format: Digital Poster\_Entry Code\_Title of the Poster (Digital Poster\_DP-001\_STAR) and with the one-page explanation/description using



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this format: Digital Poster\_Entry Code\_Explanation/Description. The contest committee will confirm the successful uploading of entries.

10. The criteria for judging are as follows:

Criteria	Percentage
<b>Relevance to the theme</b> – It should effectively communicate the given theme.	25%
<b>Originality</b> - It must show the ability to be inventive and creative.	35%
<b>Aesthetic Appeal</b> – It must captivate the judges' senses, taking into consideration the aesthetic principles of symmetry, focal point, pattern, perspective, dimensionality, and proportion.	35%
<b>Description of Artwork and Poster</b> - It measures how well the poster makes its own theme clear to the viewers.	5%

11. The decision of the board of judges is final and irrevocable.

12. The winning entry will receive a certificate and a medal during the RSTF awarding ceremony.



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Enclosure No. 3 to Division Memorandum No. 993, s. 2023

**SIYENSIKULA MECHANICS**

1. This showcasing is open to all Grade 9 to 12 students from both Public and Private Schools in the Division. A maximum of three (3) students may collaborate on a single video entry. The team may come from the same or different schools.
2. The participant(s) must discuss a difficult topic under Physical Sciences, Life Sciences, Robotics, Mathematics, or an Engineering concept in a clear, creative and engaging manner through a video presentation that is not more than three (3) minutes. The participant(s) can discuss the topic in English and/or Filipino.
3. All contents in the video must be original and be owned by the participant/s. Entries may include personal experiences and thoughtful observations. Videos must reflect that the student/s has/have carefully reviewed and examined the topic.
4. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are allowed. It is highly encouraged that photos and videos must not be derivative works.
5. Each participating school shall send one (1) entry to the Division *Siyensikula* Showcasing. It should be properly endorsed by the School Heads through an endorsement letter on or before the deadline for submission at the Division level on **November 13, 2023**.
6. Entries must be uploaded to the One Drive through the link that will be shared later through the School Head with a subject format: "SIYENSIKULA\_SCHOOL\_VideoTitle" (ex. SIYENSIKULA\_FGNMHS\_Likhs).
7. The School Heads/School Science Coor shall email the information of their entries on or before **November 13, 2023**, which include: (1) the name of the participant, (2) Youtube video link attachment of the video, and (3) a pdf file of the video script along with the references in the 7<sup>th</sup> edition APA referencing style.
8. All showcasing *Siyensikula* entries will receive certificates during the DSTF 2023 awarding ceremony.





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Enclosure No. 4 to Division Memorandum No. 393 s. 2023

**#STEMTOKPERIMENTS MECHANICS**

1. This showcasing is open to all Grade 9 to 12 students from both Public and Private 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 contestant will be held accountable for any issues that may arise with regard to the originality and accuracy of the content.

5. The following TikTok video format is highly recommended:

**File size:** The video should be up to 287.6 MB in size for iOS, or 72 MB on Android.

**Orientation:** TikTok is formatted to be viewed on a smartphone, so vertical video is best.

**Dimensions:** TikTok video dimensions should be 1080 x 1920.

**Aspect Ratio:** The aspect ratio should be that of a standard smartphone screen, 9:16. 1:1 is also possible, but it will not take up the whole screen. **File**

**Type:** TikTok supports .mp4 and .mov files.

6. The TikTok Video must use the hashtags #STEMTOKPERIMENTS and #DSTF2023 in uploading the video entry in TikTok.
7. Each school shall send one (1) entry to the Division *Siyensikula* Showcasing. It should be properly endorsed by the School Heads through an endorsement letter on or before the deadline for submission at the Division level on **November 13, 2023**.
8. Entries must be uploaded to the designated One Drive through the link that will be shared later through School Science Coordinators/Science Department Heads with a subject format:  
#STEMTOKPERIMENTS\_SCHOOL\_TITLE  
(ex.#STEMTOKPERIMENTS\_FGNMHS\_PARTICULATES).



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9. The School Head/Science Department Heads/Science Coordinators shall email the information of their entries which include the: (a) name of the participant; (b) TikTok video link attachment of the video; and (c) pdf file of the video script along with the references in the 7th edition APA referencing style.
10. TikTok video entries submitted to #STEMTOKPERIMENTS do not represent DepEd and the DSTF TWG.
11. All showcasing #STEMTokperiments entries will receive certificates during the DSTF 2023 awarding ceremony.





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Enclosure No. 5 to Division Memorandum No. 393, s. 2023

**DSTF 2023 TECHNICAL WORKING COMMITTEE**

<b>No.</b>	<b>Name</b>	<b>School</b>	<b>Activity-In Charge</b>
1	Lolita G. Bautista*	Angeles City Science High School, SDO Angeles City	SIP Division Screening Team
2	Elsie M. Paras	Francisco G. Nepomuceno Memorial High School	SIP Division Screening Team
3	Elaine Corpuz	Angeles City National High School	SIP Division Screening Team
4	Analiza Corricor	Angeles City National High School	Digital Poster Making
5	Precy T. Manarang	Rafael Lazatin Memorial High School	Digital Poster Making
6	Carlos Manlapaz	CMRICT High School	Digital Poster Making
7	Arnel Perez	Angeles National High School	Siyensikula
8	Lorie L. Macatula	Francisco G. Nepomuceno Memorial High School	Siyensikula
9	Arnie Guevarra	Angeles City Science High School-SHS	Siyensikula
10	Editha Hipolito	Angeles City National Trade School	STEMTokeperiment
11	Larry Mar Bautista	Angeles City National Trade School	STEMTokeperiments
12	Ray Jason Sanguyu	Rafael Lazatin Memorial High School	STEMtokeperiment
13	Bryle P. Alim	Angeles City Science High School	Documentation and Activity Report
14	Giavanie Cunanan	Malabantias Integrated School	Registration/Attendance
15	Aimee Rose T. Calma	Angeles City National High School-SHS	Meals for Judges and TWG
16	Jomar Sampaga	Rafael Lazatin memorial High School	Opening program



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Enclosure No. 6 to Division Memorandum No. 393, s. 2023

**DSTF 2023 Program Matrix**

<b>Activity</b>	<b>Person In-Charge</b>
November 10-11-Screening and Evaluation of Research Papers and Science Innovation Expo	Division Research Committee
November 12- DSTF 2023 Screening Research Congress and Awarding Ceremony	Screening Committee
700AM-800AM Registration	
800AM-8:30AM Opening Program <ul style="list-style-type: none"> <li>• Philippine National Anthem with Entrance of Colors</li> <li>• Opening Prayer</li> <li>• Welcome Remarks <i>SDS, SDO Nueva Ecija</i></li> <li>• Opening Remarks</li> <li>• Inspirational Message</li> <li>• Statement of Purpose</li> <li>• Introduction of the Board of Judges</li> <li>•</li> </ul>	Jomar Sampaga Technical Working Group
8:30AM-1200PM Competition Proper <ul style="list-style-type: none"> <li>• Research Congress Proper and Poster Exhibits</li> <li>• Digital Poster Making</li> <li>• STEMTokperiment</li> <li>• Siyensikula</li> </ul>	Contests' In-Charge
12:00PM-1:00PM Lunch Break	
1:00PM-2:00PM Announcement of Top 5 per event	Technical Working Group
2:00PM-4:00PM Oral Presentation	In-Charge of the SIP
4:00PM-5:00PM Awarding Ceremony (Giving of Certificates, Closing Remarks)	Technical Working Group

Enclosure No. 7 to Regional Memorandum No. 393, s. 2023

**SCHOOL, DIVISION, REGION, AND NATIONAL SCIENCE AND TECHNOLOGY  
 FAIR HANDBOOK**

Note: The cover page of the approved handbook from the CO will be posted in the GC together with the link wherein everyone can access the file



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