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Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF DIGOS CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2023- 124

To : Public Schools District Supervisors
School Heads/Principals
Public Elementary and Secondary Schools

Subject : **DIVISION SCIENCE AND TECHNOLOGY FAIR AND COMPETITIONS CUM
TRAINING-WORKSHOP ON DEVELOPING AND EVALUATING SIM AND SIP**

Date : April 24, 2023

To provide learners with opportunities to exhibit their learning, DepEd holds annual competitions at the schools, division, regional and national levels (DO No. 21, s. 2019). In line with this, the Schools Division of Digos City will be conducting the Division Science and Technology Fair and Competitions cum Training-Workshop on Developing and Enhancing SIM and SIP on May 19, 2023 at Digos City National High School.

The activity aims to:

1. empower learners and teachers and foster innovation and creativity in the face of global change;
2. provide venue for learners to demonstrate competency in addressing community challenges for long-term development and maximize their potential as inquisitive and creative problem solvers; and
3. provide opportunity for teacher-participants to be enhanced in providing technical assistance to learners and in the preparation of learning resources.

The Division Science and Technology Fair and competition will consist of the following events:

- a. Science Investigatory Project (for Secondary Level)
- b. STEMtokperiments (for Elementary and Secondary Levels)
- c. Science Quiz (for Elementary Level)
- d. Strategic Intervention Material (for science teachers)

As part of the activity, participants of SIM and SIP will attend the Training-Workshop on Developing and Enhancing SIM and SIP in their respective events.

Registration of participants and submission of entries will be on or before May 15, 2023 through Google form with a link to be provided later. No registration fee will be collected.

Strict adherence to national and Local IATF safety protocols must be observed by all participants, members of the Technical Working Group, and the Judges in the conduct of the activity.



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Details of the competition, guidelines for the various events, and members of the Technical working Group are found in the enclosures.

Incidental expenses incurred for the above-mentioned activity shall be charged against local funds while meals and snacks of training facilitators, Judges, and members of the Technical Working Group are chargeable against CID-HRTD Fund, all subject to the usual accounting and auditing rules and regulations.

Further, there will be a conference with the members of the Technical Working Group and Judges in the Quiz on April 27, 2023, Thursday at 8:00 a.m. at Digos City National High School AVR to finalize details of the competition and preparation of logistics for the activity.

For information, guidance and compliance.


MELANIE P. ESTACIO, PhD, CESO VI
Assistant Schools Division Superintendent
Officer-in-Charge, Office of the SDS

Enclosed: as stated

CID/lbj

DepEd Schools Division of Digos City
RECORDS SECTION

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Enclosure No. 1 to Division Memorandum CID-2023 _____

Division Science and Technology Fair and Competitions cum Training-Workshop on
 Developing and Evaluating SIM and SIP
Timeline of Activities

Date and Time	Activities	Modality/ Venue	Persons Involved	Expected Output
Division Science Fair and Competitions Preparatory Activity				
April 17- May 11, 2023	Preparation of Logistics for the Activity	Conference/Messaging/Face-to-Face DICNHS	EPS-Science Facilitators Coaches and Contestants	Google forms, Certificates, Program, Judging sheet, Guidelines and mechanics, and Memorandum
May 15, 2023	Submission of Entries for SIP, (Soft and Hard copies), STEMtokperiments, and SIM, and registration of Quiz participants	Online/person	EPS-Science, TWG Facilitators Coaches and Contestants	Registry of participants and Compilation of Entries
May 16-18, 2023	Pre-judging of Entries	In-Person	EPS-Science Judges, TWG/Facilitators Participants	Pre-judging results
Division Science and Technology Fair 2023 and other competitions for Learners – May 19, 2023				
7:15-8:00 a.m.	Opening Program	In-Person	TWG, All Participants	Declaration of Competition
8:00-9:00 a.m.	Session 1. Trends in Research Session 2. Common Flaws in Research	In-Person	Invited Resource Speaker Invited Resource speaker	Inputs on how research practice may be improved
9:00- a.m. - 4:00 p.m.	Competition proper: 1. Oral defense 2. Science Quest 3. StemTokperiments	In-Person	EPS-Science TWG/Facilitators Coaches and Contestants	Competition Results
4:00-5:00 p.m.	Awarding	In-Person	EPS-Science TWG/Facilitators Coaches and Contestants	Competition Results
SIM (Competition cum Training-Workshop Developing and Evaluating SIM) for teachers				
8:00-8:30 a.m.	Leveling of Expectations	In-Person	TWG	
8:30-9:30 a.m.	Session 1. Making SIM Engaging	In-Person	Ronald Dedace	
9:30- 10:30 a.m	Session 2. LR Specifications for Print and Non-print LR	In-Person	Mylene Robiños	
10:30-11:00 a.m.	Session 3. LR Evaluation Process	In-Person	Mylene Robiños	
11:00-12:00 nn	Session 4. Enhancing Questions in the Evaluation Card	In-Person	Luzminda B. Jasmin	



Republic of the Philippines
Department of Education
Region XI
SCHOOLS DIVISION OF DIGOS CITY

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

12:00 – 1:00 p.m.	<i>Lunch Break</i>			
1:00-3:00 p.m	Session 5. Workshop on evaluating and Enhancing LR	<i>In-Person</i>	Luzminda B. Jasmin, Mylene Robiños, Ronald Dedace	
3:00-4:00 p.m.	Session 6. Presentation of SIM	<i>In-Person</i>	Luzminda Jasmin, Mylene Robiños, Ronald Dedace	
4:00-5:00 p.m.	Awarding of certificates	<i>In-Person</i>	TWG	<i>Results of Competition</i>

Prepared by:

LUZMINDA B. JASMIN
EPS-Science



Republic of the Philippines
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Region XI
SCHOOLS DIVISION OF DIGOS CITY

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

Enclosure No. 2 to Division Memorandum CID-2023 _____ ,

**Guidelines, Mechanics, and Criteria for Judging
Science and Technology Fair**

The Division Science and Technology Fair shall be conducted following the guidelines of the National Science and Technology Fair as stipulated in previous DepEd Memorandum and the Intel International Science and Engineering Fair Guidelines.

There shall be three (3) categories, namely: Life Science (LS), Physical Science (PS), and Robotics and Intelligent Machines (RIM) with individual and team subcategories.

The project shall be evaluated using the following criteria:

Criteria	Points
1. Creative Ability	30
2. Scientific thought	30
3. Thoroughness	15
4. Skill	15
5. Clarity	10
Total	100

Each secondary school may submit the top 2 winners for each category in their school as entries. This shall be submitted in soft copy through a link that will be provided and the hard copy to the Division Office, Attention: Luzminda B. Jasmin, Education Program Supervisor in Science on or before May 15, 2023. Late submission shall disqualify the entry.

Each entry shall have a display board to showcase their project. The display board shall have a dimension of 38" by 48" (portrait) made of illustration board with the following format:

Title	Title should be short but would capture the essence of the product/invention
Picture	Picture of the product/invention only
Overview	What problem is solved by the invention? What are the existing solutions and what limitations do these solutions have?
Key features	What are the novelty features of this invention?
Benefits and Impact	What are the benefits/impact of this invention to society
Developer/s' Name/s	Who is/are the inventors

48 inches





Republic of the Philippines
Department of Education
Region XI
SCHOOLS DIVISION OF DIGOS CITY

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

The top 3 entries in each category will have the in-person presentation of their project during the Science Congress on May 19, 2023.

Top 3 winners will be declared in each category for individual and team subcategories. The decision of the Judges is final.

Guidelines, Mechanics, and Criteria for Judging

#STEMTokperiments – A Tiktok Science Experiment Competition

1. This competition is open to all Elementary and Secondary School Students in public schools of Digos City.
2. There will be two (2) categories: a). Elementary School and b). Secondary School. The video entry should feature only one (1) Tiktok user.
3. The Secondary Schools may submit a maximum of 2 entries while elementary school districts may submit a maximum of 5 entries.
4. 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.
5. The participant can explain the topic/concept in English or Filipino.
6. All contents and audio in the Tiktok video must be original and are owned by the participant. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are allowed. The contestant will be held accountable to any issues that may arise regarding the originality and accuracy of the content.
7. The following TikTok video format are 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 1080×1920.
 - Aspect ratio: The aspect ratio should be that of a standard smartphone screen, 9:16.
1:1 is also possible, but it won't take up the whole screen.
 - File type: TikTok supports .mp4 and .mov files.
8. STEM TOKperiments participants are required to fill out and submit Enclosure No. 3 – Certification.
9. Entries must be submitted via Google Form with a subject format: #STEMTokperiments_Video Title (example: #STEMTokperiments_ItReallyHertz). A PDF file of the video script along with the references in Chicago Manual of Style shall be submitted with the Tiktok video entry. Non-submission of any of the required documents for the competition category will automatically disqualify the entry. All entries shall be submitted on or before May 15, 2023 through a Google form link which shall be provided.





Republic of the Philippines
Department of Education
Region XI
SCHOOLS DIVISION OF DIGOS CITY

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10. The Division Science and Technology Fair Technical Working Committee reserves the right to remove, reject, or disqualify any entry if it: (a) violates the terms of service and privacy policy of Tiktok; and (b) infringes, misappropriates, or violates any rights of any third party including, without limitation, patent, copyright, trademark or right of privacy or publicity.

11. Entries submitted to the “#STEMTokperiments do not represent DepEd and the DSTF Technical working Group.

12. The board of Judges will evaluate and score all the video entries based on the criteria for judging. Top three (3) winners for each category will be declared. The decision of the Judges is final.

#SteMTokperiments – Criteria for Judging

Criteria	Description	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

(Reference: DepEd Memorandum No. 038, s. 2022)



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**Guidelines, Mechanics, and Criteria for Judging
Science Quiz**

1. The Science Quiz is open to bonafide students from the elementary public schools in Digos City.

2. Each district will have a maximum of 3 teams, composed of 3 members coming from any grade level of a school, as contestants. The participants shall register online through a link that will be provided on or before May 15, 2023.

3. The scope and coverage of the quiz show include **General and Environmental Science and Laboratory Skills demonstration.**

4. Each participant shall report to the venue on May 19, 2023 for the competition. They shall provide their own writing material, eraser, and white board/illustration board for the posting of their answers.

5. The Science Quest will be in two parts. The first part will be the quiz show and the second part will be practical test involving demonstration of scientific skills.

6. For the first part, the participants will compete and participate for three rounds in the competition:

Category/Rounds	Number of Items	Type of Questions	Points	Time Allotment
Easy	15	MCQ	1/question	15 sec.
Average	10	MCQ/Supply the answer	2/question	20 sec.
Difficult	5	Supply the answer	3/question	30-60 sec.

7. Each question will be flashed in the screen and be read by the Quiz Master. Contestants shall post their answer when the signal is given.

8. All team scores will be added from Easy, Average and Difficult Rounds.

9. For the Part 2, the top 5 teams will be asked to perform laboratory task. It may comprise of a problem, some questions and procedures to perform which shall be based on the elementary science competency. Each team will be rated based on the answers to the question and performance of the task.

10. Scores in the first part and the second part will be added. In case of a tie, the shortest time to finish the task and the better quality of output will be given the higher rank as determined by the judges.

11. After the Science Quest, top 3 winners will be declared. Decision of the judges is final.





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SCHOOLS DIVISION OF DIGOS CITY

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Guidelines, Mechanics, and Criteria for Judging

STRATEGIC INTERVENTION MATERIAL

1. This competition is open to all science teachers in Digos City. There shall be two categories, namely: elementary and secondary school category.
2. There shall be a maximum of 5 entries per elementary school district and a maximum of 4 entries for each secondary school.
3. All strategic intervention material shall include the following: Title Card, Guide Card, Activity Card, Assessment Card, Enrichment Card and Answer Card.
4. The manuscript (in soft and hard copy) shall use A4 paper size and shall attach the action research and assessment result showing the least learned competency data. These shall be submitted together with the SIM. Submission of the soft copy of SIM shall follow the file format: SIM_Grade Level_Title (Example: SIM_Grade 6_Mix and Match) through a link that will be provided and the hard copy to the Division Office, Attention: Luzminda B. Jasmin, Education Program Supervisor in Science on or before May 15, 2023.
5. SIM Proponents shall attend the Training-Workshop on Evaluating SIM on the schedule of the competition, May 19, 2023. They shall bring with them laptop to be used in the workshop on the enhancement of their SIM. After the workshop, participants have to present their SIM in a 5-minute powerpoint-presentation. A question-and-answer portion with the board of judges will follow right after the presentation.





Republic of the Philippines
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Region XI
SCHOOLS DIVISION OF DIGOS CITY

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

6. The criteria for judging is as follows:

Criteria	Description	Points
Sub-tasking (15 points)	Competency-Based	5
	Bloom's/Anderson's Taxonomy followed	6
	SMART -C	4
Congruence (15 points)	Activities-Content/Skills alignment	5
	Assessment-Content/Skills Alignment	10
Usability/Functionality (45 points)	Language	3
	Title Card	3
	Guide Card	5
	Activity Card	14
	Assessment Card	3
	Enrichment Card	3
	Reference Card	3
	Answer Card	3
	Packaging	8
Replicability (25 points)	Validated before Classroom use	5
	Based on Least mastered skills	5
	Material improved mastery level	10
	Handy and easy to replicate	3
	Cost Effective	2
	TOTAL	100

7. Top 3 entries will be declared winner per category. The decision of the Judges is final.



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Enclosure No. 3 to Division Memorandum CID-2023 _____

CERTIFICATION

KNOW ALL MEN BY THESE PRESENTS:

That I _____ of
_____ writer in the
_____ hereby certify that our entry is of our own, and is
new and original to the best of our knowledge. I further certify that we give our permission
for DepEd Digos City Division to share the said Videos as supplemental learning material to
be used in the classrooms.

IN WITNESS WHEREOF, I have hereunto set our hands on this _____ day of
_____, 2023 at _____.

Affiant

Witness

Witness

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 2023, at
_____, Philippines, affiant
_____, exhibiting his proof of identity as
above stated.

Doc. No. : _____
Page No.: _____
Book No.: _____
Series of 2023

Reference: Deped Memorandum No. 038, s. 2022



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Enclosure No. 4 to Division Memorandum CID-2023 _____

Division Science and Technology Fair and Competition
cum Training-Workshop on Developing and Enhancing SIM and SIP
May 19, 2023

Technical Working Group

Judges:

DSTF-Science Investigatory Project

Chairperson: Garnette May Balacy

Members: 1. Mishel Cadungog
2. Invited Judge from DOST

Science Quiz:

Chairperson: Maria Carmela Gillado

Members: 1. Miraluz Siase
2. Angelyn Gultiano

STEMtokperiments:

Chairperson: Gervacio Salinas Jr.

Members: 1. Ida Juezan
2. Reyzen Monserate

Strategic Intervention Material

Chairperson: Jem Boy Cabrella

Members: 1. Ronald Dedace
2. Mylene Robiños

Event Facilitators:

1. DSTF- Science Investigatory Project – Maricel Almacin
2. STEMtokperiments – Jomel Labuson
3. Science Quest- Robin Charles Ramos, Maribel Solis
4. SIM- Milagros Dela Peña

Committees

Registration and Awards

Chairperson: Floradel Dumadag

Members: 1. Kim Dela Cruz
2. Eileen Artiaga

Program, Certificates and Designs

Chairperson: Janice Alquizar

Members: 1. Jomel Labuson
2. Regina Raymundo

Venue and Food:

Chairperson: Lalaine Mortalla

Members: 1. Felix Alfonso
2. Brandon Ocampo

Overall Chairperson: Luzminda B. Jasmin

