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Republic of the Philippines
Department of Education
SCHOOLS DIVISION OFFICE OF ABRA

May 23, 2022

DIVISION MEMORANDUM

Number 162 s, 2022

2022 DIVISION SCIENCE AND MATHEMATICS FAIR

To: SECONDARY SCHOOL HEADS
ELEMENTARY SCHOOL HEADS
PSDS and DISTRICT IN-CHARGE
EPSs/ Action Officers

1. Department Order No. 38 series of 2022 and Regional Memorandum No. 228 s 2022 announced the conduct of the National and Regional Science and Technology Fair with the theme "Expanding the Horizon: Futures of Science, Technology, Engineering and Mathematics (STEM). Anent to this, a division level fair will be conducted virtually on **June 17, 2022** to identify participants who will represent the SDO in the regional level competitions.
2. The virtual DSMF will banner the following events and competitions:
For Science:
 - **Siyensikula** – an original video creation and competition in science
 - **Likha** – a Research Proposal Competition
 - **STEMtokperiments** – a TikTok Science Experiments Competition
 - **AghamBayaniJuan** – a public community exhibition of partners in science, technology, research and innovation.For Mathematics:
 - **Mathikula** – an original video creation and competition in mathematics
 - **Mathematics Quiz** – face to face quiz show in mathematics
3. The documents below are enclosed for the information and guidance of all concerns.
 - Enclosure No. 1: Siyensikula/ Mathikula Mechanics
 - Enclosure No. 2: Siyensikula/ Mathikula waiver and Certification
 - Enclosure No. 3: Likha – Mechanics and Criteria
 - Enclosure No. 4: Likha – Project Proposal Template
 - Enclosure No. 5: STEMTokperiments Mechanics and Criteria

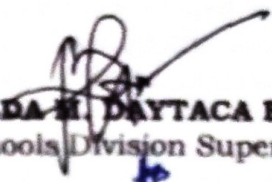


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4. For queries in science, please contact Bhenjo P. Agaloos, EPS for Science, through this mobile number +639171496763 or email address bhenjo_agaloos@deped.gov.ph. For Mathematics concern please contact Mijurodel B. Rifareal, EPS for Mathematics, through this mobile number +639175122801 or email address mijurodel.rifareal@deped.gov.ph.
5. All expenses incurred by the participants related to the conduct of the fair will be charged against local funds/ MOOE/ other school funds subject to the usual COA auditing rules and regulations.
6. Immediate dissemination and strict compliance to this memorandum is desired.


BENILDA H. DAYTACA EdD, CESO V
Schools Division Superintendent

BPA-CID-IM



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(Enclosure 1 to Division Memorandum No. ___ s 2022)

**Siyensikula/ Mathikula
MECHANICS AND CRITERIA**

1. This competition is open to all Elementary, Junior and Senior High School students. Only individual entries are allowed for the siyensikula/ mathikula.
2. The participant must discuss a difficult topic under **Physical Sciences, Life Sciences, Mathematics, or Engineering** concept in a clear, creative, and engaging manner through a video presentation that is **not more than three (3) minutes**. The participants can discuss the topic in **English and/ or Filipino**.
3. All contents in the video must be original and are owned by the participant. Entries may include personal experience and thoughtful observations. Videos must reflect that the students have carefully reviewed and examined the topic.
4. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are **allowed**. Entries with photos and videos which are derivative works will automatically be disqualified.
5. Each municipal district may send 1 official entry to the Division Siyensikula/ Mathikula competition. Deadline of submission at the division level will be on **June 16, 2022**.
6. Entries must be submitted via email through bhenjo.agaloos@deped.gov.ph. Entries must be submitted following subject format: "SIYENSIKULA_school name_category_topic". (Example: SIYENSIKULKA_Abra HS_Senior HS_Catalyst")
7. The email should include: (1) the **name of the participant**, (2) a **YouTube video link** attachment of the video entry, and (3) a **PDF file of the video script** along with the reference in Chicago Manual of Style. Non-submission of any of the required documents for the competition category will automatically be disqualified.
8. The Siyensikula will be judge according to the following criteria: *(for the description refer to RM No. 228 s. 2022)*

Criteria	Percentage
Engagement	25%
Illumination	25%
Creativity	25%
Difficulty	25%
Total	100%



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(Enclosure 2 to Division Memorandum No. ___ s 2022)

CERTIFICATION

KNOW ALL MEN BY THESE PRESENTS:

That I _____ of
_____ writer in the
_____ hereby certify that our own, and is new and
original to the best of our knowledge. I further certify that I give our permission for
DepEd - Bureau of Curriculum Development to share the said Videos as
supplemental learning materials to be used in the classrooms.

IN WITNESS WHEREOF, I have hereunto set our hands on this ____ day of
_____, 2022 at _____.

Witness

Witness

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 2022, at
_____, Philippines, affiant _____
exhibiting his proof of identity as above stated.

Doc No.: _____
Page NO.: _____
Book No.: _____
Series of 2022

Note: Please submit this form together with your entries on or before the delaine of submission.



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**Likha - A Full Proposal Research Competition
MECHANICS AND CRITERIA**

1. This competition is open to all Grades 9 to 12 students. Entries is limited to five (5) project proposal per category.
2. The first-place winner shall represent the SDO to the Regional Science and Technology Fair competition as approved by the Screening Committee. Only one (1) entry is allowed per category.
3. The four categories are **Life Science, Physical Science, Robotics and Intelligent Machines and Computational Science**. There will be a separate category for **individual and team**.
4. Entries must be submitted via email through bhenjo.agaloos@deped.gov.ph. Entries must be submitted following subject format: "LIKHA_school name_category_topic". (Example: LIKHA_Abra HS_Robotics Individual_Automatic Alcohol Dispenser")
5. Deadline of submission will be on or before **June 16, 2022**. The email should include completely filled out Project Form and other relevant files in **PDF format**. Incomplete submission of the required will be disqualified.
6. The Project Proposal will be **JUDGED** according to the following criteria:

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 in an innovative manner	20%
Community Connection and Impact	Outcomes are expected to address the issue or problem identified	20%
Excellence of method	Proponent/s provide/s a clear explanation of the facts, theories, through understanding of the expected output of the proposal	20%
	Total	100%

7. Project Format (for the description refer to RM No. 228 s. 2022)
 - a. Executive Summary
 - b. Introduction
 - c. Review of Literature
 - d. Methodology
 - e. Expected Output and Potential impact
 - f. Workplan and Target Deliverables
 - g. References



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Likha - Project Proposal Template

(1) PROJECT PROFILE Project Title: Names of Project Proponents: Region: Division: School: Grade Level: Project Duration (number of months): Email: Contact Number:	
(2) CATEGORY OF RESEARCH <input type="checkbox"/> Physical Science <input type="checkbox"/> Life Science <input type="checkbox"/> Robotics and Intelligent Machines <input type="checkbox"/> Mathematics and Computational Science	(4) THEME <input type="checkbox"/> Food Safety <input type="checkbox"/> Water Conservation <input type="checkbox"/> Renewable Energy <input type="checkbox"/> Cyber Security <input type="checkbox"/> Traffic/ Road Congestion <input type="checkbox"/> Health <input type="checkbox"/> Disaster Mitigation <input type="checkbox"/> Agriculture and Environment <input type="checkbox"/> Others (please specify)
(3) <input type="checkbox"/> Individual <input type="checkbox"/> Team	
(5) EXECUTIVE SUMMARY <i>(not to exceed 200 words)</i>	
(6) INTRODUCTION	
(6.1) RATIONALE/ SIGNIFICANCE <i>(not to exceed 300 words)</i>	
(6.2) SCIENTIFIC BASIS/ THEORETICAL FRAMEWORK/ MATHEMATICAL THEORY INVOLVED	
(6.3) OBJECTIVES General: Specific:	
(7) REVIEW OF LITERATURE	
(8) METHODOLOGY	
(9) EXPECTED OUTPUT AND POTENTIAL IMPACTS	
(10) WORK PLAN AND TARGET DELIVERABLES	
(11) REFERENCES	



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**STEMTOKPERIMENTS - A TikTok Science Experiment Competition
MECHANICS AND CRITERIA**

1. This competition is open to all elementary, junior and senior High School students.
2. There will be three (3) categories: Elementary, Junior HS, and Senior HS. The video entry should only feature only one (1) TikTok user.
3. Each **municipal district** may send **one (1) official entry from each category** to the Division STEMTokperiment Competition. Deadline of submission at the division level will be on **June 16, 2022**.
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**. The participant can explain the concept/ topic in English or Filipino.
5. All contents and audio in the Tiktok 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.
6. The following Tiktok video format are highly recommended:
 - a. File size: the video should be up to 287.65 MB in s2e for iOS, or 72 MB on Android.
 - b. Orientation: 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.
 - c. File type: mp4 and mov files
7. Entries must be submitted via email through bhenjo.agaloos@deped.gov.ph. Entries must be submitted following subject format: "TIKTOKPERIMENTS_school name_category_topic". (Example: TIKTOKPERIMENTS_Abra HS_Junior HS_Pressure)
8. The email should include: (1) the **name of the participant**, (2) a **Tiktok video link** attachment of the video entry, and (3) a **PDF file of the video script** along with the reference in Chicago Manual of Style. Non-submission of any of the required documents for the competition category will automatically be disqualified.
9. The Tiktok video will be judge according to the following criteria:

Criteria	Percentage
Originality and Creativity	30%
Delivery/ Execution	30%
Accuracy of Content	40%
Total	100%



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