



Republic of the Philippines
Department of Education
 Region I

SCHOOLS DIVISION OFFICE OF ALAMINOS CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM
DM-2022-205



TO : Assistant Schools Division Superintendent
 Chief Education Supervisor - CID - *dlj*
 Chief Education Supervisor - SGOD - *[Signature]*
 Education Program Supervisor - Science
 Heads of Public and Private Elementary and Secondary Schools
 All others concerned

SUBJECT : **2022 DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF)**

FROM : Office of the Schools Division Superintendent

DATE : June 2, 2022

1. Per DepEd Memorandum No. 038, s. 2022, this Office through the Curriculum Implementation Division will conduct the 2022 Online Division Science and Technology Fair with the theme "Expanding Horizon: Futures of STEM on June 8-10, 2022 via Google Meet.
2. The 2022 DSTF aims to:
 - a. empower the youth and cultivate innovation, and creativity amid the changing world and identify the most creative and innovative student researchers from from Junior and Senior High school who will represent the division to the 2022 Regional Science and Technology Fair;
 - b. showcase the competence of the learners in addressing community problems for sustainable development and to maximize their potential of being inquisitive and creative in dealing with real-life problems; and
 - c. establish camaraderie and sportsmanship among the learners/researchers and coaches.
3. The virtual DSTF will conduct the following competitions:

Contested Event	Category
a. Siyensikula, a video creation competition	Individual Category only
b. STEMazing, a video creation competition	Individual Category only
c. Likha, a research proposal competition	
c.1 Life Science	Individual and Team Categories
c.2 Physical Science	Individual and Team Categories
c.3 Robotics and Intelligent Machines	Individual and Team Categories

With hundred reasons to serve!



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d. STEM Tokperiments, a Tiktok Science Experiment Competition

Individual (from Elem)
Individual (from Junior HS)
Individual (from Senior HS)

4. Participation is voluntary. The IATF health and safety protocols shall be observed in all activities of the DSTF.
5. Attached to this Memorandum are the schedule of activities, guidelines and mechanics for the different competitions.
6. For information, guidance, widest dissemination, and strict compliance.

LORNA G. BUGAYONG PhD, CESO V
Schools Division Superintendent

for. 
ORLANDO GUERRERO EdD
Chief Education Supervisor - CID

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A. Schedule of Activities:

DSTF Opening Pogram	June 8, 2022 at 9:00 am via Google Meet
STEMTokperiments	June 8, 2022
Siyensikula	June 9, 2022
STEMazing	June 9, 2022
Likha	June 9, 2022

**Participants are required to submit parental consent to the email/link intended per activity*

B. Mechanics and Guidelines of the Division Level Siyensikula Competition

1. This competition is open to all Junior and Senior High School students from both Public and Private Schools.
2. This is an individual category to ensure that no conflict of ownership will arise on the use of YouTube account (DepEd Advisory BCD-SCPD-O-2786 dated May 11, 2022).
3. The participant must discuss a difficult topic under Physical Sciences, Life Sciences, 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 can discuss the topic in English and/or Filipino.
4. All contents in the video must be original and are owned by the participant. The video may include personal experiences and thoughtful observations and may reflect that the student has carefully reviewed and examined the topic.
5. The first placer shall represent the SDO in the Regional Level Siyensikula Competition.
6. The video entries must be submitted via email/link to be given to the group chat of Science Coordinators following this filename format: SIYENSIKULA_SCHOOLNAME_VideoTitle
Example: SIYENSIKULA_RIZALNHS_Ligtas
7. The Board of Judges shall evaluate all the video entries based on the following criteria for judging:
 - Engagement-----25%
 - Illumination-----25%
 - Creativity-----25%
 - Difficulty -----25%
 - Total-----100%

C. Mechanics and Guidelines of the Division Level STEMazing Competition

1. The video presentations will focus on the following scenarios/themes:
 - a. Natural Disasters (earthquakes, tsunami, volcanic eruption, typhoon, etc.) and Climate Change/Global Warming
 - b. Agriculture and Food security
 - c. Environment and Natural Resources
 - d. Healthcare/Pandemics
2. The first placer video presentation (regardless of any scenario/theme from the aforementioned 4 choices) shall be the official entry of division in the regional level competition.

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3. The participants may use the internet and other printed resources in developing their video presentation provided relevant provisions of the copyright law are followed.
4. The video presentations may consist of the following:
 - a. Plan of action that may be done on local or global scale to address the challenges set in the scenario.
 - b. Detail key features of the proposed solution.
 - c. Challenges to resolve to effectively implement the proposed solution.
 - d. Proposed solution maybe similar or different from existing practices, technologies, and solutions. If so, the video presentation shall include on how the proposed solution would build up from the existing practices, technology, and solutions.
5. The video entries must be submitted via email/link to be given to the group chat of Science Coordinators following this filename format: STEMazing_SCHOOLNAME_VideoTitle
 Example: STEMazing_RIZALNHS_Ligtas
6. Criteria for Judging:

a) Organization, Discussion & Clarity of Presentation.....	40%
(Based on scientific, technological, and other valid assumptions, & ability to effectively communicate solutions)	
b) Creative Ability, Innovativeness & Scientific Thought.....	20%
(Significance and feasibility of the proposed solutions)	
c) Relevance of Data Used, Accuracy of Information & Intellectual Property Rights Compliance.....	20%
(No factual errors, no copyright violations)	
d) Technical Design.....	20%
(Appropriate use of visual and audio components)	
Total.....	100%

**D. Mechanics and Guidelines of the Division Level Likha Competition
 (A Research Proposal Competition)**

1. This competition is open to all Grade 9-12 students from both Public and Private Schools.
2. The four (4) major categories are: a) Life Science, b) Physical Science, c) Robotics & Intelligent Machines.
3. A virtual presentation of the research proposal must not exceed five (5) minutes. A five (5)-minute question and answer portion with the board of judges will follow right after the virtual presentation.
4. Submit the Likha-Project Proposal Template indicated in Enclosure No. 7 of DepEd Memorandum No. 038, s. 2022 and other soft copies of relevant files of the write-up in PDF format with a folder following a folder filename format: LIKHA_SCHOOLNAME_ProjectCode
 Example: LIKHA_RIZALNHS_LS-I.
5. Submit 1 hard copy of write-up to Dr. Cynthia B. Tablang, DEPS – Science on or before June 9, 2022. Placed it in short bond papers and a short folder following the Project Code

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(to be printed in black pentel pen at the upper left corner of every folder) and color of short folders to be used as specified below:

Category of Research Proposal	Project Code	Color of Folder
1)Life Science -Individual	LS-I-	Green
2)Life Science -Team	LS-T-	Yellow
3)Physical Science -Individual	PS-I-	Blue
4)Physical Science -Team	PS-T-	Red
5)Robotics & Intelligent Machines -Individual	RIM-I-	Orange
6)Robotics & Intelligent Machines -Team	RIM-T-	Violet

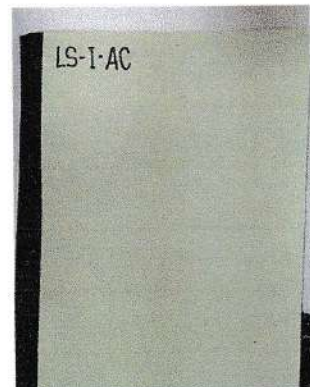
*Every team category shall consist of 2-3 student-researchers.

There should only be one (1) teacher-coach per category.

6.The Research Proposal Format has the following parts:

- a. Executive Summary
- b. Introduction
 - b.1 Rationale
 - b.2 Significance
 - b.3 Scientific Basis
 - b.4 Theoretical Framework
 - b.5 Objectives
- c. Review of Literature
- d. Methodology
- e. Expected Output and Potential Impact
- f. Workplan and Target Deliverables
- g. References

EXAMPLE



7. The Board of Judges shall evaluate all the Likha Research Proposal entries based on the following criteria for judging:

Originality and Innovation-	20%
Technical/Scientific Merit-	20%
Community Connection & Impact-	20%
Excellence of Method-	20%
Presentation-	20%
Total-----	100%

8. The first placer in every category shall represent the SDO in the Regional Level Likha Competition.

9. The division entries must be submitted to the email/link to be given to the group chat of Science Coordinators following this subject format: LIKHA_SCHOOLNAME_CATEGORY

Example: LIKHA_RIZALNHS_LIFE_SCIENCE_INDIVIDUAL

Example: LIKHA_RIZALNHS_PHYSICAL_SCIENCE_TEAM

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E. Mechanics and Guidelines of the Division Level #STEMTOKPERIMENTS Competition (A Tiktok Science Experiment Competition)

1. This competition is open to all Elementary, Junior and Senior High School learners from both Public and Private Schools.
2. There shall be three (3) categories: a) **Elementary**; b) **Junior High School**; and c) **Senior High School**. For JHS and SHS, the video entry should feature **only one student (one Tiktok User)**.

For Elementary, no need to use Tiktok App, just send your video that supports .mp4 and .mov files to the email/link to be given the group chat of Science Coordinators GC following this filename format: #SCITOKPERIMENTS_SCHOOLNAME_ELEM

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. The first placers in JHS and SHS shall represent the division in the Regional Level #STEMTOKPERIMENTS Competition. The participant can explain the topic/concept in English or Filipino.
5. Only the first placers in JHS and SHS will upload the video entry in TikTok. All contents and audio in the TikTok video must be original and are owned by the contestant. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are allowed. The contestant shall be held accountable to any issues that may arise regarding the originality and accuracy of content.
6. The following TikTok video format are highly recommended:
 - a) **File size:** The video should be up to 287.6 MB in size for iOS, or 72 MB on Android.
 - b) **Orientation:** TikTok is formatted to be viewed on a smartphone, so vertical video is best.
 - c) **Dimensions:** TikTok video dimensions should be 1080x1920.
 - d) **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.
 - e) **File type:** TikTok supports .mp4 and .mov files.

7. The TikTok video entries must be submitted to the email/link to be given to the group chat of Science Coordinators following this filename format:

#SCITOKPERIMENTS_SCHOOLNAME_CATEGORY

Example: #SCITOKPERIMENTS_RIZALNHS_JHS

8. The Board of Judges shall evaluate all the TikTok video entries based on the following criteria for judging:

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

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