



Republic of the Philippines
Department of Education
Region III
SCHOOLS DIVISION OF BULACAN

May 24, 2022

DIVISION MEMORANDUM

No. 166, s. 2022

DIVISION SCIENCE AND TECHNOLOGY FAIR 2022

To: Division Chiefs
All Public Secondary School Heads
All Others Concerned

1. The Schools Division of Bulacan announces the conduct of the Division Science and Technology Fair (DSTF) for the school year 2021-2022 with the theme – EXPANDING THE HORIZON: FUTURES OF STEM. However, with the prevailing COVID-19 restrictions being implemented nationwide, the DSTF 2022 will be held virtually.
2. The deadline of submission of entries is on June 6, 2022 via Google drive of which the link will be provided at a specified date. The division screening and evaluation of entries will be held on June 7-9, 2022 and the announcement of winners will be virtually held on June 10, 2022 via Google Meet. The submission of Division entries for the RSTF will be on or before June 17, 2022.
3. In unison with the themes of National Science and Technology Fair 2022 and Regional Science and Technology Fair 2022, the DSTF 2022 aims to:
 - a. enhance the 21st century skills of learners that include communication, collaboration, digital literacy, critical thinking, and problem-solving skills;
 - b. support STEM education through healthy and friendly competition;
 - c. advocate Science and Technology consciousness and a culture of innovation among the youth; and,
 - d. identify the most creative and innovative learners from Junior and Senior High Schools who shall represent the Division to the RSTF 2022 and the NSTF 2022.
4. The virtual DSTF 2022 showcases the following inter-school competitions:
 - a. **Siyensikula** – an original video creation competition
 - b. **Likha** – a research proposal competition
 - c. **#STEMTokperiments** – a TikTok Science experiment competition
5. Expenses to be incurred by the participants shall be charged to school's Maintenance and Other Operating Expenses (MOOE) subject to the usual accounting and auditing rules and regulations.
6. Attached herewith are the RM No. 266, s. 2022 and RM No. 284, s. 2022 for references.
7. Wide and immediate dissemination on this memorandum is earnestly desired.


ZENIA G. MOSTOLES, Ed.D., CESO V
Schools Division Superintendent

Encls.: As stated

References: DepEd Memorandum No. 038, s. 2022





Republic of the Philippines
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 REGION III-CENTRAL LUZON

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REGIONAL MEMORANDUM

No. 266, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

To: Schools Division Superintendents
 Education Program Supervisors In-Charge of Science and Technology Fair
 Public School District Supervisors
 School Heads/Administrators, Public and Private Secondary Schools
 All Others Concerned

1. The Department of Education (DepEd) Regional Office (RO) III, through the Curriculum and Learning Management Division (CLMD), announces the conduct of the **Regional Science and Technology Fair (RSTF) 2022**, with the theme **"Expanding the Horizon: Futures of STEM."** The regional screening and evaluation process of the submitted entries will be held on **June 27-28, 2022**, via online platform. The awarding ceremony of the RSTF and announcement of the finalists to the National Science and Technology Fair (NSTF) will be on **July 1, 2022**, via an online platform.

2. The Schools Division Offices (SDOs) shall conduct their own schedule relative to the selection and screening process of their entries and participants to the RSTF.

3. This year's RSTF is anchored on the aims of the National Science and Technology Fair (NSTF) which are to:

- a. empower the youth and cultivate innovation, and creativity amid the changing world; and
- b. showcase the competence of the learners in addressing community problems for sustainable development and maximize their potential of being inquisitive and creative in dealing with real-life problems.

4. The virtual RSTF will banner the following events and competitions:

- a. **Siyensikula** – an original video creation competition
- b. **Likha** – a Research Proposal Competition
- c. **#STEMtokperiments** – a Tiktok Science Experiment Competition

5. The following documents are enclosed for information and guidance of all concerned:

- Enclosure No. 1 *Siyensikula* – Mechanics
- Enclosure No. 2 *Siyensikula* – Criteria/Peer to Peer Evaluation Tool
- Enclosure No. 3 *Siyensikula* – Waiver and Certification
- Enclosure No. 4 *Likha* – Mechanics and Criteria
- Enclosure No. 5 *Likha* – Rubric Evaluation Tool (Screening)
- Enclosure No. 6 *Likha* – Rubric Evaluation Tool (Final Judging)
- Enclosure No. 7 *Likha* – Project Proposal Template
- Enclosure No. 8 **#STEMtokperiments** – Mechanics and Criteria
- Enclosure No. 9 Calendar of Important RSTF Activities and Requirements



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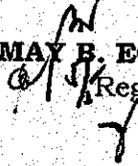
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Enclosure No. 10 Culminating & Awarding Activity Matrix
Enclosure No. 11 Technical Working Group (TWG)

6. All expenses to be incurred relative to the conduct of this activity shall be charged against the Regional Maintenance and Other Operating Expenses (MOOE) and subsidy from the DepEd-Bureau of Curriculum Development, whereas expenses like video editing, communication allowance of the learners/coach, and others, shall be charged to School/Division MOOE and other local funds, subject to the usual accounting and auditing rules and regulations.
7. Attached is the DM 038, s. 2022, for reference.
8. For more information, please contact Mr. Arlon P. Cadiz, Regional Science Education Program Supervisor, through email at clmd.ro3@deped.gov.ph.
9. Immediate and wide dissemination of this Memorandum is desired.


MAY B. ECLAR, PhD, CESO III
Regional Director

Encls.: As stated
Reference: DepEd Memorandum No.053, s.2021
To be indicated in the Perpetual Index
under the following subjects:

**CELEBRATIONS AND FESTIVALS
CONTESTS LEARNING AREA, SCIENCE
SCHOOLS
STUDENTS**

Clmd10
May 5, 2022



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Enclosure No. 1 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

SIYENSIKULA MECHANICS

1. This competition is open to all Junior and Senior High School students from both Public and Private Schools in the country. A maximum of three students may collaborate on a single video entry. **(Note: Collaboration of the participants and coaching may be done remotely such as, but not limited to, online meetings, email messaging, and all available online collaboration platforms.)**
2. 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 minutes. The participant can discuss the topic in English and/or Filipino.
3. All contents in the video must be original and are 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. Entries with photos and videos which are derivative works will automatically be **disqualified**.
5. Each division may send a maximum of **two official entries** to the Regional *Siyensikula* Competition. They should be properly endorsed by the Schools Division Superintendent through an endorsement letter on or before the deadline of submission at the regional level on **June 17, 2022**.
6. Entries must be uploaded to Google Drive through this link <https://tinyurl.com/RSTF-2022Siyensikula> not later than June 17, 2022, with a subject format: "SIYENSIKULA_DIVISION_VideoTitle" (e.g., SIYENSIKULA_ZAMBALES_Ligtas).
7. The Division Science Education Program Supervisors (EPSs) shall email the information of their entries which include: (1) the name of the participant, (2) the Youtube video link attachment of the video entry, and (3) a pdf file of the video script along with the references in the Chicago Manual of Style. Non-submission of any of the required documents for the competition entry will automatically be disqualified.
8. There will be two stages in the judging process:
 - a. **PEER-TO-PEER REVIEW** - The Peer-to-Peer Review is the first phase of judging. Entries will be reviewed and scored by at least five other contestants. The Peer-to-Peer review process is an educational experience and desires with



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good faith in providing an honest and sincere assessment which aims at providing an honest and sincere assessment for each entry. The contest committee will assign peers who will review the entries of other contestants. The project with the highest score will receive a special award. The criteria for judging are found in **Enclosure No. 2**.

b. **EVALUATION AND SELECTION COMMITTEE REVIEW** – The Evaluation and Selection Committee will review and score all the video entries based on the criteria for judging found in *Enclosure No. 2*.

9. The evaluation results of the Evaluation and Selection Committee are **independent** of the results of the Peer-to-Peer Evaluation.

10. The top **two entries** in the Final stage shall be declared as qualifiers and will represent the region in the NSTF 2022.

11. All winning entries will receive certificates/awards and will be posted on the official Facebook page of the RSTF 2022 with the permission and proper acknowledgement of the creators/participants. Participants must submit a duly notarized Certification (**See Enclosure No. 3**).



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Republic of the Philippines
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Enclosure No. 2 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF) 2022

SIYENSIKULA – RUBRIC EVALUATION TOOL

Entry No.	Points					
	0	1	2	3	4	5
Engagement	Failed to establish engagement and did not hold viewer's attention.	Somewhat interesting but did not hold viewer's attention for the entire length of the video.	Fairly interesting and held viewer's attention for the entire length of the video.	Interesting and viewer felt engaged throughout the entire length of the video.	Very interesting and throughout the video, viewer was excited to see what would come next.	Captivating and made the viewer want to watch other videos made by the entrant.
Illumination	Failed to explain the subject matter clearly; video did not help viewer understand subject matter.	Explanation was at times confusing and viewer was not able to understand much of the subject matter.	Explanation was fairly clear but covered only general concepts.	Explanation was clear and covered some topics beyond general concepts.	Explanation was very clear and covered many topics beyond general concepts.	Viewer was able to fully understand the explanation, and video provided a deep dive into the intricacies of the subject matter.
Creativity	No elements of the video demonstrated a creative approach to explaining the subject matter.	The explanation was standard and contained one or two resourceful elements.	Parts of the video used creative approaches that made those parts of the explanation stronger.	Many parts of the video took an unorthodox approach to explaining the subject matter, which made the overall explanation stronger.	The entrant implemented a creative approach throughout the entire video that helped the viewer understand the subject matter.	Video provided an inventive approach that should be used to teach this subject matter.
Difficulty	Subject matter is typically covered at the elementary school level.	Subject matter is typically covered at the junior school level.	Subject matter is typically covered at the middle school level, but the video expands upon more complex areas of the subject matter.	Subject matter is typically covered at the high school level.	Subject matter is typically covered at the advanced high school level or early college level.	Subject matter is typically covered at the advanced college level or higher.
Total (Maximum of 20 points)						



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Republic of the Philippines
Department of Education
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Enclosure No. 3 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

SIYENSIKULA – WAIVER AND CERTIFICATION

CERTIFICATION

KNOWN ALL MEN BY THESE PRESENTS:

That I/We _____ of _____ writer/s in the _____ hereby certify that our entry is of our own, and is new and original to the best of our knowledge. I/We further certify that we 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/We 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 Deadline of submission.



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Republic of the Philippines
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Enclosure No. 4 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

LIKHA – MECHANICS AND CRITERIA

1. The competition is open to all Grades 9 to 12 students from both public and private schools in the country.
2. The four major categories are Life Science, Physical Science, Robotics and Intelligent Machines, and Mathematics and Computational Sciences.

Category	Life Science	Physical Science	Robotics and Intelligent Machines	Mathematics and Computational Sciences
	Individual	Individual	Individual	Individual
	Team	Team	Team	Team

3. The first-place winners at the Division Level shall represent the Schools Division to the RSTF competition as approved by the Screening Committee.
4. The official entries to the Regional Level *Likha* Competition should be properly endorsed by the Schools Division Superintendent through an endorsement letter on or before the deadline of submission at the regional level on **June 17, 2022**.
5. Entries must be uploaded to the designated Google Drive folder of the SDO through this link via <https://tinyurl.com/RSTF-2022Likha> not later than June 17, 2022 with a subject format: LIKHA_DIVISION_CATEGORY-Individual/Team (e.g., LIKHA-ANGELES CITY_LS-I).
6. The Division Science EPSs shall email the information of their entries which include the completely filled-out Project Proposal Form (**Enclosure 7**) and other relevant files in PDF format. Incomplete submission of required documents of the competition entry will automatically be disqualified.
7. The DepEd-RSTF Regional Technical Working Committee reserves the right to remove, reject, or disqualify any entry if it infringes, misappropriates, or violates any rights of any third party including, without limitation, patent, copyright, trademark or right of privacy or publicity.
8. The proposal will be screened according to the following criteria:

Criteria	Weight
Originality and Innovation	25%
Technical/Scientific Merit	25%
Community Connection and Impact	25%



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Excellence or Method	25%
Total	100%

9. 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 or apply existing new knowledge in an innovative manner	20%
Community Connection and Impact	Outcomes are expected to address the issue or problem identified	20%
Excellence or Method	Solution and method proposed are cost effective, viable, timely, and relevant	20%
*Presentation	Proponent/s provide/s a clear explanation of the facts, theories, through understanding of the expected output of the proposal	20%
Total		100%

*Online Presentation

10. Project Format Descriptions:

- a. **Project Summary** – a brief discussion about the proposal.
- b. **Introduction** – a declaration of the project and its idea and context to explain the goals and objectives to be reached and other relevant information that explains the need for the project and states the aims to describe the amount of work planned for implementation; refers to a simple explanation or depiction of the project that can be used as communication material.
 - i. **Rationale** – a brief analysis of the problems identified and related to the project
 - ii. **Significance** – refers to the alignment to national Science and Technology (S & T) priorities, strategic relevance to national development and addresses current issues and concerns.
 - iii. **Scientific Basis** – scientific findings, conclusions or assumptions used as justification for the research.
 - iv. **Theoretical Framework** – the structure that summarizes concepts and theories that serve as basis for the data analysis and interpretation of the research data.
 - v. **Objectives** – statements of the general and specific purposes to address the problem areas of the project.
- c. **Review of Literature** – refers to the following: (a) related researches that have been conducted, state-of-the-art or current technologies from which the project will take off; (b) scientific/technical merit; (c) results of related research conducted by the same Project Leader, if any; (d) Prior Art Search; and (e) other relevant materials.



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- d. **Methodology** – description of the design and engineering solution proposed to address the problem, the (a) variables or parameters to be measured and evaluated or analyzed; (b) treatments to be used and their layout; (c) experimental procedures and design; (d) statistical analysis; (e) evaluation method and observations to be made, strategies for implementation (Conceptual/Analytical Framework)
- e. **Expected Output and Potential Impact** – discusses the possible outcome of the project, the target beneficiaries, socio and economic impact.
- f. **Workplan and Target Deliverables** – indicates the timeline of activities to be accomplished in the conduct of the project.
- g. **References** – list of reference materials such as journals, designs and patents, and online sources. It should follow Chicago Manual of Style in referencing.

11. All winning entries will receive certificates/awards. The **top one** per category shall be declared qualifier and will represent the region to the national competition.



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Enclosure No. 5 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

LIKHA – RUBRIC EVALUATION TOOL (SCREENING)

CRITERIA	POINT
1. Originality and Innovation (25) 1. Does the project show originality and innovation in terms of: a. proposed approach in solving the problem? b. research design? c. research methodology? d. construction or design of a new or improved equipment? 2. Did the research project considered an issue/problem/gap that previous research projects did not addressed? 3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?	
2. a. Technical/Scientific Merit (25) (If an engineering project, please see 2b. Engineering Goals.) 1. Is the problem stated explicitly and concisely? 2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)? 3. Did the finalist/team cite sufficient number of credible related literatures to provide a solid understanding and pre-requisite information for readers to better understand the research project? 4. Does the finalist/team recognize the projects' limitations? 5. Does the analysis of background information with depth? b. Engineering Goals 1. Does the project have a clear objective? 2. Is the objective relevant to the potential user's needs? 3. Is the solution: workable? Acceptable to the potential user? Economically feasible? 4. Could the solution be utilized successfully in design or construction of an end product? 5. Is the solution a significant improvement over previous alternatives or application? 6. Will the solution be tested for performances under standardized protocols?	
3. Community Connection and Impact (25) 1. Did the project addressed a relevant research issue? (e. g. food safety, water conservation, cyber security, traffic/road congestion, health, disaster mitigation, agriculture and environment and others) 2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society? 3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?	
4. Excellence of Method (25) 1. Was the research methods supported by relevant and credible related literatures? 2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives? 3. Are the variables clearly identified and defined? 4. If controls were necessary, did the student recognize their need and will be used correctly? For the extraneous variables, did the student identified methods on how to control such variables? 5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed? 6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected? 7. Does the project recognize ethical or safety issues and has adequate plans to manage risks? 8. Does the project include appropriate protocols/procedures for waste disposal and data analysis? 9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?	
TOTAL	
Signature over printed name of the evaluator	



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Enclosure No. 6 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022
LIKHA – RUBRIC EVALUATION TOOL (FINAL JUDGING)

CRITERIA	POINT
1. Originality and Innovation (20) 1. Does the project show originality and innovation in terms of: a. proposed approach in solving the problem? b. research design? c. research methodology? d. construction or design of a new or improved equipment? 2. Did the research project considered an issue/problem/gap that previous research projects did not addressed? 3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?	
2. a. Technical/Scientific Merit (20) (If an engineering project, please see 2b. Engineering Goals.) 1. Is the problem stated explicitly and concisely? 2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)? 3. Did the finalist/team cite sufficient number of credible related literatures to provide a solid understanding and pre-requisite information for readers to better understand the research project? 4. Does the finalist/team recognize the projects' limitations? 5. Does the analysis of background information with depth? b. Engineering Goals 1. Does the project have a clear objective? 2. Is the objective relevant to the potential user's needs? 3. Is the solution: workable? Acceptable to the potential user? Economically feasible? 4. Could the solution be utilized successfully in design or construction of an end product? 5. Is the solution a significant improvement over previous alternatives or application? 6. Will the solution be tested for performances under standardized protocols?	
3. Community Connection and Impact (20) 1. Did the project addressed a relevant research issue? (e. g. food safety, water conservation, cyber security, traffic/road congestion, health, disaster mitigation, agriculture and environment and others) 2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society? 3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?	
4. Excellence of Method (20) 1. Was the research methods supported by relevant and credible related literatures? 2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives? 3. Are the variables clearly identified and defined? 4. If controls were necessary, did the student recognize their need and will be used correctly? For the extraneous variables, did the student identified methods on how to monitor and keep these variables constant? 5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed? 6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected? 7. Does the project recognize ethical or safety issues and has adequate plans to manage risks? 8. Does the project include appropriate protocols/procedures for waste disposal and data analysis? 9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?	



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5. Presentation (20)	
1. How clearly and concisely does the finalist or team discussed his/her project and explain the rationale and procedures? Watch out of memorized speeches that reflect little understanding of principles.	
2. Does the written material reflect the finalist's or team's understanding of the research proposal?	
3. Are the important phases of the project presented in an orderly manner?	
4. How clearly is the rationale presented?	
5. How clearly are the research methods presented?	
6. Did the student used presentation resources as guide?	
7. Is the presentation professional with the use of colors, fonts and graphics?	
8. Did the student speaks clearly, maintains eye contact and uses appropriate scientific language?	
9. Did the student provided clear, detailed and accurate answers to the questions given?	
TOTAL	
Signature over printed name of the Judge	



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Enclosure No. 7 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

LIKHA – PROJECT PROPOSAL TEMPLATE

(1) PROJECT PROFILE Project Title: _____ Names of Project Proponent/s: _____ 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 Sciences	(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 (not to exceed 200 words)	
(6) INTRODUCTION	
(6.1) RATIONALE/SIGNIFICANCE (not to exceed 300 words)	
(6.2) SCIENTIFIC BASIS/THEORETICAL FRAMEWORK/MATHEMATICAL THEORY INVOLVED	
(6.3) OBJECTIVES General: Specific:	
(7) REVIEW OF LITERATURE	
(8) METHODOLOGY	
(9) EXPECTED OUTPUTS AND POTENTIAL IMPACTS	
(10) WORK PLAN AND TARGET DELIVERABLES	
(11) REFERENCES	



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Republic of the Philippines
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Enclosure No. 8 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF) 2022

#STEMTokperiments – MECHANICS AND CRITERIA

1. The competition is open to all Junior and Senior High School students from both public and private schools in the country.
2. There will be two categories: (a) Junior High School, and (b) Senior High School. 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 minute.
4. For the TikTok video format, see Enclosure No. 8 of DM 038, s. 2022, item number 8.
5. The TikTok Video must use the hashtags #STEMTOKPERIMENTS and #NSTF2022 in uploading the video entry in TikTok.
6. Each Schools Division may send one (1) official entry from each category to the Regional #STEMTokperiments Competition. The official entries to the Regional Level #STEMTokperiments Competition should be properly endorsed by the Schools Division Superintendent through an endorsement letter on or before the deadline of submission at the regional level on **June 17, 2022**.
7. Entries must be uploaded to the designated Google drive through this link via <https://tinyurl.com/RSTF-2022STEMtokperiments> not later than June 17, 2022 with a subject format: #STEMTOKPERIMENTS_DIVISION_CATEGORY (e.g., LIKHA-BULACAN_JHS).
8. The Division Science EPSs shall email the information of their entries which include the: (a) name of participant; (b) TikTok video link attachment of the video entry; and (c) pdf file of the video script along with the references in Chicago Manual of Style. Non-submission of any of the required documents for the competition category will automatically be disqualified.
9. The DepEd RSTF Regional TWG 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.



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
Telephone Number: (045) 598-8580 to 89 • Email Address: region3@deped.gov.ph



Certificate No. AA17-0077



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

10. TikTok video entries submitted to #STEMTOKPERIMENTS do not represent DepEd and the RSTF TWG.
11. The TikTok video will be judged according to the following criteria:

Criteria	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%

12. The top one from each category shall be declared qualifier and will represent the region to the national competition.



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
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Republic of the Philippines
Department of Education
REGION III-CENTRAL LUZON

Enclosure No. 9 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF) 2022
CALENDAR OF IMPORTANT RSTF ACTIVITIES AND REQUIREMENTS

Activity	Date	Required Items	Persons Involved	Modality
Submission of entries for the RSTF	June 17, 2022	See Mechanics of <i>Siyensikula</i> , <i>Likha</i> , and <i>STEMtokperiments</i>	Division Science EPS	Online Submission
Meeting of Technical Working Committee	June 20, 2022	Competition entries, evaluation tools, Google Forms, publication materials (pubmat)	Competition Committee/Technical Working Group (TWG)	Online
Screening of the LIKHA Competition entries	June 22 to 24, 2022	Rubric Evaluation Tool	Regional Science EPS, Panel of Judges, Contest Committee/TWG	Limited Face-to-Face
Peer-to-Peer Review of <i>Siyensikula</i> entries	June 24, 2022	Rubric Evaluation Tool	Competition Committee/Technical Working Group (TWG)	Online
Judging of Competition entries	July 27 & 28, 2022	Rubric Evaluation Tools	Competition Committee/Technical Working Group (TWG), Panel of Judges	Limited Face-to-Face and Asynchronous
RSTF Awarding Ceremony	July 1, 2022	Certified Final list of winners	Panel of Judges, Contest Committee	Online
Meeting of Science EPSs and NSTF qualifiers	July 8, 2022	Compliance to NSTF requirements	Regional & Division Science EPS, Competition Committee/Technical Working Group (TWG)	Online
Submission of entries for the NSTF	July 15, 2022	Compliance to NSTF requirements	Regional & Division Science EPSs, Participants & Coaches	Online



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
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Certificate No. AJA17-0377



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

Enclosure No. 10 to Regional Memorandum No. ____, s. 2021

REGIONAL SCIENCE & TECHNOLOGY FAIR 2022
 Activity Matrix – Culminating Activity

July 1, 2022
 1:00 p.m. onwards

National Anthem	AVP
DepEd RO III Hymn	AVP
Prayer	AVP
Welcome & Inspirational Message	
Introduction of the Panel of Judges	Arlon P. Cadiz EPS, CLMD
Presentation of the Competition Entries	AVP
Announcement of Winners & Qualifiers of NSTF	Arlon P. Cadiz EPS, CLMD
Closing Remarks	Librada M. Rubio, PhD Chief, CLMD



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
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Certificate No. AM17-0077



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

Enclosure No. 11 to Regional Memorandum No. ____, s. 2022

REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022

TECHNICAL WORKING GROUP (TWG)

Erickson SJ. Serrano	Meycauayan National High School, SDO City of Meycauayan
Reychelle A. Serrano	Meycauayan National High School, SDO City of Meycauayan
Marlon B. Marvilla	City of Meycauayan Vocational Sr. High School, SDO Meycauayan
Catherine V. Gabriel	Bancal Integrated School, SDO Meycauayan
Joselito P. Mendoza	San Miguel National High School, SDO Bulacan
Mark Kevin L. Olimba	Sta. Lucia National High School, SDO Bulacan
Marvin Villanueva	Palayan City National High School, SDO Nueva Ecija
Alexis L. Quizon	Benigno S. Aquino National High School, SDO Tarlac Province
Maricel C. Pascual	Marcelo H. del Pilar National HS, SDO Malolos City
Sarah Nicole B. Vinluan	Matatalaib High School, SDO Tarlac City
Arjay S. Daplas	Regional Science High School III, SDO Olongapo City
Mary Criselda M. Ligsanan	Balanga City National Science HS, SDO Balanga City
Christian Keith M. Ortiz	Camp Tinio NHS, SDO Cabanatuan City
Marianne E. Vilaga	Doña Asuncion Lee Chi Uan Integrated School, SDO Pampanga
John Florentino E. Echon	Taltal NHS, SDO Zambales
Ralph Emerson L. Raton	Camachiles National HS, SDO Mabalacat City
Misty B. Dela Cruz	Orani National HS-Main, SDO Bataan



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Certificate No. AJA17-0077



Republic of the Philippines
Department of Education

26 APR 2022

DepEd MEMORANDUM
No. **038**, s. 2022

NATIONAL SCIENCE AND TECHNOLOGY FAIR 2022

To: Undersecretaries
Assistant Secretaries
Minister, Basic, Higher, and Technical Education, BARMM
Bureau and Service Directors
Regional Directors
Schools Division Superintendents
Public and Private Secondary School Heads
All Others Concerned

1. Navigating the education landscape amid the COVID-19 pandemic has intensified the drive for innovations in teaching and learning. Advancements in the various fields accentuated by technology are at the forefront of revolutionizing the approaches to transition to the new normal. This has magnified the role of the sciences and research in providing specific and effective solutions to global issues and challenges.
2. The Department of Education (DepEd), through the Bureau of Curriculum Development (BCD), announces the conduct of the **National Science and Technology Fair (NSTF) for School Year (SY) 2021-2022** with the theme, **Expanding the Horizon: Futures of STEM**. However, with varied levels of COVID-19 restrictions being implemented across the country, the conduct of the NSTF 2022 will be held virtually in coordination with the regional offices and partners.
3. This year's NSTF continues to empower the youth and cultivate **innovation, and creativity amid the changing world**. The NSTF also aims to 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.
4. The Virtual NSTF will banner the following events and competitions:
 - a. *Siyensikula* – an original video creation competition
 - b. *Likha* – a Research Proposal Competition
 - c. *#SteMTokperiments* – a Tiktok Science Experiment Competition
 - d. *AghamBayaniJuan* – a public community exhibition of partners in Science, Technology Research, and Innovation
 - e. *STEM Academy* – a conference for learning and development for students and teachers on innovation, creativity, and excellence in Science and Research
5. Participation in the school, division, regional and national Science Technology Fair is voluntary. The Regional Offices may conduct their own selection and screening process for their entries and participants in the National Science and Technology Fair. The announcement of national finalists and awarding ceremony will be on **August 1-5, 2022**.

6. Strict adherence to National and local Inter-Agency Task Force (IATF) protocols must be observed at all levels of the competition such as, but not limited to, the mandatory wearing of masks by all participants and members of the Technical Working Committee (TWG).

7. All expenses related to the conduct of the NSTF 2022 such as communication allowance, prizes, cash awards, and honoraria of members of the Screening Committee, Board of Judges, and external or non-DepEd resource persons in the national level STF shall be charged to the Bureau of Curriculum Development (BCD) Fund, whereas expenses related to video production including notarial services, communication allowance of the learners/coach, etc., can be charged to local funds of the school/schools division offices (SDOs), subject to the usual accounting and auditing rules and regulations.

8. The decision of the National Board of Judges in the evaluation and deliberation of entries is final and irrevocable.

9. The documents below are enclosed for the information and guidance of all concerned.

Enclosure No. 1	<i>Styensikula-Mechanics</i>
Enclosure No. 2	<i>Styensikula-Criteria/Peer to Peer Evaluation Tool</i>
Enclosure No. 3	<i>Styensikula Waiver and Certification</i>
Enclosure No. 4	<i>Likha - Mechanics and Criteria</i>
Enclosure No. 5	<i>Likha - Rubric Evaluation Tool (Screening)</i>
Enclosure No. 6	<i>Likha - Rubric Evaluation Tool (Final Judging)</i>
Enclosure No. 7	<i>Likha - Project Proposal Template</i>
Enclosure No. 8	<i>STEMtokperiments - Mechanics and Criteria</i>
Enclosure No. 9	<i>Timeline NSTF 2022</i>

10. For more information, please contact **Ms. Anna Liza M. Chan**, Supervising Education Program Specialist, Bureau of Curriculum Development - Special Curricular Programs Development Division, 3rd Floor, Bonifacio Building, Department of Education Central Office, DepEd Complex, Meralco Avenue, Pasig City through email at nstf@deped.gov.ph or telephone numbers (02) 8632-7746 and (02) 8635-9822.

11. Immediate dissemination of this Memorandum is desired.


LEONOR MAGTOLIS BRIONES
Secretary

Encls.: As stated

Reference: DepEd Memorandum No. 053, s. 2021

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

CELEBRATIONS AND FESTIVALS
CONTESTS
LEARNING AREA, SCIENCE

SCHOOLS
STUDENTS





SIYENSIKULA MECHANICS

1. This competition is open to all Junior and Senior High School students from both Public and Private Schools in the country. A maximum of three (3) students may collaborate on a single video entry. *Collaboration of the participants and coaching may be done remotely such as, but not limited to, online meetings, email messaging, and all available online collaboration platforms.*
2. The participant/s 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 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/s. Entries may include personal experiences and thoughtful observations. Videos must reflect that the student has 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 region may send a **maximum of two (2) official entries** to the National Siyensikula Competition. They shall be properly endorsed by the Regional Director through an endorsement letter on or before the deadline of submission at the national level on July 15, 2022.
6. Entries must be submitted via email at **nstf@deped.gov.ph** following this subject format: **"SIYENSIKULA_REGION_VideoTitle"** (ex. SIYENSIKULA_ROVIII_Ligtas).
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 references in the Chicago Manual of Style. Non-submission of any of the required documents for the competition category will automatically be disqualified.
8. There will be two (2) stages in the judging process:
 - a. **PEER-TO-PEER REVIEW** - The Peer-to-Peer Review is the first phase of judging. Entries will be reviewed and scored by at least five (5) other contestants. The Peer-to-Peer review process is an educational experience and desires with good faith in providing an honest and sincere assessment for each entries. The contest committee will assign peers who will review the entries of other contestants. The project with the highest score will receive a special award. The criteria for judging are found in *Enclosure No. 2*.

- b. **EVALUATION AND SELECTION COMMITTEE REVIEW** – The Evaluation and Selection Committee will review and score all the video entries based on the criteria for judging found in *Enclosure No. 2*.
9. The evaluation results of the Evaluation and Selection Committee are **independent** of the results of the Peer to Peer Evaluation. The entry with the highest percentage in the final stage shall be declared as Champion and will be given a medal and a certificate.
10. All the winning entries will receive certificates and will be posted on the official Facebook page of the National Science and Technology Fair and DepEd Philippines with the permission and proper acknowledgment of the creators/participants. Participants must submit a duly notarized Certification. (*Enclosure No. 3*)



Siyensikula - Rubric Evaluation Tool

Entry No.	Points					
	0	1	2	3	4	5
Engagement	Failed to establish engagement and did not hold viewer's attention.	Somewhat interesting but did not hold viewer's attention for the entire length of the video.	Fairly interesting and held viewer's attention for the entire length of the video.	Interesting and engaged the viewer throughout run of the video.	Very interesting and throughout the video, viewer was excited to see what would come next.	Captivating and made the viewer want to watch other videos made by the entrant.
Illumination	Failed to explain the subject matter clearly; video did not help viewer understand subject matter.	Explanation was at times confusing and viewer was not able to understand much of the subject matter.	Explanation was fairly clear but covered only general concepts.	Explanation was clear and covered some topics beyond general concepts.	Explanation was very clear and covered many topics beyond general concepts.	Viewer was able to fully understand the explanation, and video provided a deep dive into the intricacies of the subject matter.
Creativity	No elements of the video demonstrated a creative approach to explaining the subject matter.	The explanation was standard and contained one or two resourceful elements.	Parts of the video used creative approaches that made those parts of the explanation stronger.	Many parts of the video took an unorthodox approach to explaining the subject matter, which made the overall explanation stronger.	The entrant implemented a creative approach throughout the entire video that helped the viewer understand the subject matter.	Video provided an inventive approach that should be used to teach this subject matter.
Difficulty	Subject matter is typically covered at the elementary school level.	Subject matter is typically covered at the junior high school level.	Subject matter is typically covered at the senior high school level.	Subject matter is typically covered at the senior high school level but the video expands upon more complex areas of the subject matter.	Subject matter is typically covered at the advanced senior high school level or early college level.	Subject matter is typically covered at the advanced college level or higher.
Total (Maximum of 20 points)						



CERTIFICATION

KNOWN ALL MEN BY THESE PRESENTS:

That I/We _____ of _____ writer/s in the _____ hereby certify that our entry is of our own, and is new and original to the best of our knowledge. I/We further certify that we 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/We have hereunto set our hands on this _____ day of _____, 2022 at _____.

Witness

Witness

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 2021, 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 Deadline of submission.



Likha – A Full Proposal Research Competition

MECHANICS AND CRITERIA

1. This competition is open to all Grade 9 - 12 students from both Public and Private Schools in the country.
2. The first place winners at the Regional level shall represent the region to the National STF competition as approved by the Screening Committee. Only one (1) entry is allowed per category.
3. The four (4) major categories are Life Science, Physical Science, Robotics and Intelligent Machines, and Mathematics and Computational Sciences.

Category	Life Science	Physical Science	Robotics and Intelligent Machines	Mathematics and Computational Sciences
	Individual	Individual	Individual	Individual
Team	Team	Team	Team	

4. The official entries to the National Level *Likha* Competition should be properly endorsed by the Regional Director through an endorsement letter on or before the deadline of submission at the national level on **July 15, 2022**.
5. Entries must be submitted via email to nstf@deped.gov.ph with a subject format: **LIKHA_REGION_CATEGORY** (ex. **LIKHA_ROVIII_LS-I**).
6. The email should include completely filled-out **Project Form** (Enclosure 5) and other relevant files in PDF format. Incomplete submission of the required documents may disqualify the regional entries.
7. DepEd-NSTF National Technical Working Committee reserves the right to remove, reject, or disqualify any entry if it infringes, misappropriates, or violates any rights of any third party including, without limitation, patent, copyright, trademark or right of privacy or publicity.
8. The Project Proposal will be screened according to the following criteria:

Criteria	Weight
Originality and Innovation	25%
Technical/Scientific Merit	25%
Community Connection and Impact	25%
Excellence of method	25%
Total	100%

9. 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 or apply existing knowledge in an innovative manner	20%
Community Connection and Impact	Outcomes are expected to address the issue or problem identified.	20%
Excellence of method	Solution and method proposed and cost effective, viable, timely and relevant.	20%
Presentation	Proponent/s provide/s a clear explanation of the facts, theories, thorough understanding of the expected output of the proposal.	20%
Total		100%

10. Project Format Descriptions:

- a. **Executive Summary**- a brief discussion about the proposal.
- b. **Introduction**- a declaration of the project and its idea and context to explain the goals and objectives to be reached and other relevant information that explains the need for the project and states the aims to describe the amount of work planned for implementation; refers to a simple explanation or depiction of the project that can be used as communication material.
 - **Rationale**- a brief analysis of the problems identified related to the project
 - **Significance**- refers to the alignment to national S&T priorities, strategic relevance to national development and addresses current issues and concerns.
 - **Scientific Basis**- scientific findings, conclusions or assumptions used as justification for the research.
 - **Theoretical Framework**- the structure that summarizes concepts and theories that serve as basis for the data analysis and interpretation of the research data.
 - **Objectives**- statements of the general and specific purposes to address the problem areas of the project.
- c. **Review of Literature** - refers to the following: (a) related researches that have been conducted, state-of-the-art or current technologies from which the project will take off; (b) scientific/technical merit; (c) results of related research conducted by the same Project Leader, if any; (d) Prior Art Search, and; (e) other relevant materials.

- d. **Methodology** - description of the design and engineering solution proposed to address the problem, the (a) variables or parameters to be measured and evaluated or analyzed; (b) treatments to be used and their layout; (c) experimental procedures and design; (d) statistical analysis; (e) evaluation method and observations to be made, strategies for implementation (Conceptual/Analytical framework).
- e. **Expected Output and Potential Impact** - discusses the possible outcome of the project, the target beneficiaries, socio and economic impact
- f. **Workplan and Target Deliverables**- indicates the timeline of activities to be accomplished in the conduct of the project.
- g. **References** - list of reference materials such as journals, designs and patents, and online sources. It should follow Chicago Manual of Style in referencing.



LIKHA - RUBRIC EVALUATION TOOL (SCREENING)

CRITERIA	POINT
<p>1. Originality and Innovation (25)</p> <ol style="list-style-type: none"> 1 Does the project show originality and innovation in terms of <ol style="list-style-type: none"> a. proposed approach in solving the problem? b. research design? c. research methodology? d. construction or design of a new or improved equipment? 2. Did the research project considered an issue/problem/gap that previous research projects did not addressed? 3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design? 	
<p>2. a. Technical/Scientific Merit (25) (If an engineering project, please see 2b. Engineering Goals.)</p> <ol style="list-style-type: none"> 1. Is the problem stated explicitly and concisely? 2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)? 3. Did the finalist/team cite sufficient number of credible related literatures to provide a solid understanding and pre-requisite information for readers to better understand the research project? 4. Does the finalist/team recognize the projects' limitations? 5. Does the analysis of background information with depth? <p>b. Engineering Goals</p> <ol style="list-style-type: none"> 1 Does the project have a clear objective? 2. Is the objective relevant to the potential user's needs? 3. Is the solution: workable? Acceptable to the potential user? Economically feasible? 4. Could the solution be utilized successfully in design or construction of an end product? 5. Is the solution a significant improvement over previous alternatives or application? 6. Will the solution be tested for performances under standardized protocols? 	
<p>3. Community Connection and Impact (25)</p> <ol style="list-style-type: none"> 1. Did the project addressed a relevant research issue? (e. g. food safety, water conservation, cyber security, traffic/road congestion, health, disaster mitigation, agriculture and environment and others) 2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society? 3. Does the proposed solution gives value, effectiveness and efficiency to their target sector? 	
<p>4. Excellence of Method (25)</p> <ol style="list-style-type: none"> 1. Was the research methods supported by relevant and credible related literatures? 2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives? 3. Are the variables clearly identified and defined? 4. If controls were necessary, did the student recognize their need and will be used correctly? For the extraneous variables, did the student identified methods on how to control such variables? 5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed? 6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected? 7. Does the project recognize ethical or safety issues and has adequate plans to manage risks? 8. Does the project include appropriate protocols/procedures for waste disposal and data analysis? 9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible? 	
<p>TOTAL</p>	
<p>Signature over printed name of the evaluator</p>	



LIKHA - RUBRIC EVALUATION TOOL (FINAL JUDGING)

CRITERIA	POINT
<p>1. Originality and Innovation (20)</p> <ol style="list-style-type: none"> 1. Does the project show originality and innovation in terms of: <ol style="list-style-type: none"> a. proposed approach in solving the problem? b. research design? c. research methodology? d. construction or design of a new or improved equipment? 2. Did the research project considered an issue/problem/gap that previous research projects did not addressed? 3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design? 	
<p>2. a. Technical/Scientific Merit (20) (If an engineering project, please see 2b. Engineering Goals.)</p> <ol style="list-style-type: none"> 1. Is the problem stated explicitly and concisely? 2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)? 3. Did the finalist/team cite sufficient number of credible related literatures to provide a solid understanding and pre-requisite information for readers to better understand the research project? 4. Does the finalist/team recognize the projects' limitations? 5. Does the analysis of background information with depth? <p>b. Engineering Goals</p> <ol style="list-style-type: none"> 1. Does the project have a clear objective? 2. Is the objective relevant to the potential user's needs? 3. Is the solution: workable? Acceptable to the potential user? Economically feasible? 4. Could the solution be utilized successfully in design or construction of an end product? 5. Is the solution a significant improvement over previous alternatives or application? 6. Will the solution be tested for performances under standardized protocols? 	
<p>3. Community Connection and Impact (20)</p> <ol style="list-style-type: none"> 1. Did the project addressed a relevant research issue? (e. g. food safety, water conservation, cyber security, traffic/road congestion, health, disaster mitigation, agriculture and environment and others) 2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society? 3. Does the proposed solution gives value, effectiveness and efficiency to their target sector? 	
<p>4. Excellence of Method (20)</p> <ol style="list-style-type: none"> 1. Was the research methods supported by relevant and credible related literatures? 2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives? 3. Are the variables clearly identified and defined? 4. If controls were necessary, did the student recognize their need and will be used correctly? For the extraneous variables, did the student identified methods on how to monitor and keep these variables constant? 5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed? 6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected? 7. Does the project recognize ethical or safety issues and has adequate plans to manage risks? 8. Does the project include appropriate protocols/procedures for waste disposal and data analysis? 9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible? 	
<p>5. Presentation (20)</p> <ol style="list-style-type: none"> 1. How clearly and concisely does the finalist or team discussed his/her project and explain the rationale and procedures? Watch out of memorized speeches that reflect little understanding of principles. 2. Does the written material reflect the finalist's or team's understanding of the research proposal? 3. Are the important phases of the project presented in an orderly manner? 4. How clearly is the rationale presented? 5. How clearly are the research methods presented? 6. Did the student used presentation resources as guide? 7. Is the presentation professional with the use of colors, fonts and graphics? 8. Did the student speaks clearly, maintains eye contact and uses appropriate scientific language? 9. Did the student provided clear, detailed and accurate answers to the questions given? 	
<p>TOTAL</p> <p>Signature over printed name of the Judge</p>	



LIKHA - PROJECT PROPOSAL TEMPLATE

(1) PROJECT PROFILE Project Title: _____ Names of Project Proponent/s: _____ 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 Sciences	(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 (not to exceed 200 words)	
(6) INTRODUCTION	
(6.1) RATIONALE/SIGNIFICANCE (not to exceed 300 words)	
(6.2) SCIENTIFIC BASIS/THEORETICAL FRAMEWORK/MATHEMATICAL THEORY INVOLVED	
(6.3) OBJECTIVES General: Specific:	
(7) REVIEW OF LITERATURE	
(8) METHODOLOGY	
(9) EXPECTED OUTPUTS AND POTENTIAL IMPACTS	
(10) WORK PLAN AND TARGET DELIVERABLES	
(11) REFERENCES	



(Enclosure No. 8 to DepEd Memorandum No. 038, s. 2022)

#STEMTOKPERIMENTS - A TIKTOK SCIENCE EXPERIMENT COMPETITION MECHANICS

1. This competition is open to all Junior and Senior School students from both Public and Private Schools in the country.

2. There will be two(2) categories: (a) Junior High School, and (b) Senior High School. The video entry should feature only one (1) Tiktok user.

3. Each region may send one (1) **official entry from each category** to the National *STEMTokperiments* Competition. They should be properly endorsed by the Regional Director through an endorsement letter on or before the deadline of submission at the national level on July 15, 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.

5. The participant can explain the topic/concept in English or Filipino.

6. The Tiktok Video must use the hashtags #SCITOKPERIMENTS and #NSTF2022 in uploading the video entry in Tiktok.

7. 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 to any issues that may arise with regard to the originality and accuracy of the content.

8. 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 will not take up the whole screen.

File type: TikTok supports .mp4 and .mov files.

9. Entries must be submitted via email at nstf@deped.gov.ph with a subject format: "#SCITOKPERIMENTS_REGION_ENTRYNO_" (ex. "#SCITOKPERIMENTS_ROVII_EntryNo1).

10. The email should include: (1) the name/s of the participant/s; (2) Tiktok video link attachment of the video entry; and (3) a pdf file of the video script along with the references in Chicago Manual of Style. Non-submission of any of the required documents for the competition category will automatically be disqualified.

11. DepEd-NSTF National 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.

12. Entries submitted to "#SCITOKPERIMENTS do not represent DepEd and the NSTF Technical Working Group.

13. The Tiktok Video will be judged according to the following criteria:

Criteria	Percentage
Originality and Creativity <ul style="list-style-type: none">• Video is original, creative and unique.	30%
Delivery/Execution <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• All information being delivered is accurate and relevant.	40%
Total	100%

(Enclosure No.9 to DepEd Memorandum No. 038, s. 2022)



NATIONAL SCIENCE AND TECHNOLOGY FAIR TIMELINE

Activity	Date/Schedule
School and Division Level Screening	May 30 – June 3, 2022
Regional Level Science and Technology Fair	June 27 – July 1, 2022
Submission of Entries for the National Level Science and Technology Fair	July 15, 2022
National Level - Preliminary Screening of Entries	July 18 - 22, 2022
National Science and Technology Fair Culmination Program and Awarding Ceremony	August 1 – 5, 2022