



Republic of the Philippines  
**Department of Education**  
REGION X - NORTHERN MINDANAO  
**SCHOOLS DIVISION OF EL SALVADOR CITY**

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27 May 2022

DIVISION MEMORANDUM  
No. 220, s. 2022

**2022 DIVISION SCIENCE AND TECHNOLOGY FAIR**

To: CID Chief  
Public Secondary School Heads  
Private Secondary School Heads  
Secondary Teachers  
All Other Concerned

1. In reference to DepEd Memorandum No. 38, s. 2022, the division will conduct the 2022 Division Science and Technology Fair (DSTF) on June 20 to 24, 2022. This year's theme is *Expanding the Horizon: Futures of STEM*.
2. The DSTF continues to empower the youth and cultivate innovation, and creativity amid the changing world. It 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.
3. The 2022 DSTF will hold the following competitions:
  - a. Siyensikula – an original video creation competition
  - b. Likha – a Research Proposal Competition
  - c. #SteMTokperiments – a Tiktok Science Experiment Competition
4. Participants are requested to email their entries to [mariejade.cacayan@deped.gov.ph](mailto:mariejade.cacayan@deped.gov.ph) on or before June 22, 2022.
5. Attached are the following for the information and guidance of all concerned.  
Attachment No. 1 DepEd Memorandum No. 38, s. 2022  
Attachment No. 2 DepEd Advisory No. BCD – SCPD – 0 – 2022 – 2786
6. In the course of preparation for this activity, all are directed to strictly follow the health and safety protocols prescribed by the City Government/ Local Inter – Agency Task Force on Emerging Infectious Diseases (IATF – EID) and the City Health Office/ Department of Health (DOH)
7. This Office shall adhere to Equal Opportunity Principle (EOP) in the steps undertaken for this purpose. Hence, all decisions and actions shall be based on guidelines set forth, with no discrimination on the account of age, gender, identity, sexual orientation, civil status, disability, religion, ethnicity or political affiliation.





Republic of the Philippines  
**Department of Education**  
REGION X - NORTHERN MINDANAO  
**SCHOOLS DIVISION OF EL SALVADOR CITY**

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8. Immediate and wide dissemination of this memorandum is desired.

  
**OLGA C. ALONSABE, PhD., CESO V**  
Schools Division Superintendent

*Attch: As Stated*

*To be indicated in the Perpetual Index  
under the Science  
CID/ mjac*





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>Siyensikula-Mechanics</i>
Enclosure No. 2	<i>Siyensikula-Criteria/Peer to Peer Evaluation Tool</i>
Enclosure No. 3	<i>Siyensikula 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](mailto: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:



To authenticate this document,  
 please scan the QR code. DEPED-OSEC-458967

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					
Criteria	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)						

(Enclosure No. 3 to DepEd Memorandum No. 038, s. 2022)



**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](mailto: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:

<b>Criteria</b>	<b>Weight</b>
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:

<b>Criteria</b>	<b>Description</b>	<b>Weight</b>
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"> <li>1. Does the project show originality and innovation in terms of:                             <ol style="list-style-type: none"> <li>a. proposed approach in solving the problem?</li> <li>b. research design?</li> <li>c. research methodology?</li> <li>d. construction or design of a new or improved equipment?</li> </ol> </li> <li>2. Did the research project considered an issue/problem/gap that previous research projects did not addressed?</li> <li>3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?</li> </ol>	
<p>2. a. Technical/Scientific Merit (25) (If an engineering project, please see 2b. Engineering Goals.)</p> <ol style="list-style-type: none"> <li>1. Is the problem stated explicitly and concisely?</li> <li>2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)?</li> <li>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?</li> <li>4. Does the finalist/team recognize the projects' limitations?</li> <li>5. Does the analysis of background information with depth?</li> </ol> <p>b. Engineering Goals</p> <ol style="list-style-type: none"> <li>1. Does the project have a clear objective?</li> <li>2. Is the objective relevant to the potential user's needs?</li> <li>3. Is the solution: workable? Acceptable to the potential user? Economically feasible?</li> <li>4. Could the solution be utilized successfully in design or construction of an end product?</li> <li>5. Is the solution a significant improvement over previous alternatives or application?</li> <li>6. Will the solution be tested for performances under standardized protocols?</li> </ol>	
<p>3. Community Connection and Impact (25)</p> <ol style="list-style-type: none"> <li>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)</li> <li>2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society?</li> <li>3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?</li> </ol>	
<p>4. Excellence of Method (25)</p> <ol style="list-style-type: none"> <li>1. Was the research methods supported by relevant and credible related literatures?</li> <li>2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives?</li> <li>3. Are the variables clearly identified and defined?</li> <li>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?</li> <li>5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed?</li> <li>6. Does the project specifically and clearly explained what and how quantitive and qualitative data will be collected?</li> <li>7. Does the project recognize ethical or safety issues and has adequate plans to manage risks?</li> <li>8. Does the project include appropriate protocols/procedures for waste disposal and data analysis?</li> <li>9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?</li> </ol>	
<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"> <li>1. Does the project show originality and innovation in terms of:               <ol style="list-style-type: none"> <li>a. proposed approach in solving the problem?</li> <li>b. research design?</li> <li>c. research methodology?</li> <li>d. construction or design of a new or improved equipment?</li> </ol> </li> <li>2. Did the research project considered an issue/problem/gap that previous research projects did not addressed?</li> <li>3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?</li> </ol>	
<p>2. a. Technical/Scientific Merit (20) (If an engineering project, please see 2b. Engineering Goals.)</p> <ol style="list-style-type: none"> <li>1. Is the problem stated explicitly and concisely?</li> <li>2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)?</li> <li>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?</li> <li>4. Does the finalist/team recognize the projects' limitations?</li> <li>5. Does the analysis of background information with depth?</li> </ol> <p>b. Engineering Goals</p> <ol style="list-style-type: none"> <li>1. Does the project have a clear objective?</li> <li>2. Is the objective relevant to the potential user's needs?</li> <li>3. Is the solution: workable? Acceptable to the potential user? Economically feasible?</li> <li>4. Could the solution be utilized successfully in design or construction of an end product?</li> <li>5. Is the solution a significant improvement over previous alternatives or application?</li> <li>6. Will the solution be tested for performances under standardized protocols?</li> </ol>	
<p>3. Community Connection and Impact (20)</p> <ol style="list-style-type: none"> <li>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)</li> <li>2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society?</li> <li>3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?</li> </ol>	
<p>4. Excellence of Method (20)</p> <ol style="list-style-type: none"> <li>1. Was the research methods supported by relevant and credible related literatures?</li> <li>2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives?</li> <li>3. Are the variables clearly identified and defined?</li> <li>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?</li> <li>5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed?</li> <li>6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected?</li> <li>7. Does the project recognize ethical or safety issues and has adequate plans to manage risks?</li> <li>8. Does the project include appropriate protocols/procedures for waste disposal and data analysis?</li> <li>9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?</li> </ol>	
<p>5. Presentation (20)</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Does the written material reflect the finalist's or team's understanding of the research proposal?</li> <li>3. Are the important phases of the project presented in an orderly manner?</li> <li>4. How clearly is the rationale presented?</li> <li>5. How clearly are the research methods presented?</li> <li>6. Did the student used presentation resources as guide?</li> <li>7. Is the presentation professional with the use of colors, fonts and graphics?</li> <li>8. Did the student speaks clearly, maintains eye contact and uses appropriate scientific language?</li> <li>9. Did the student provided clear, detailed and accurate answers to the questions given?</li> </ol>	
TOTAL	
Signature over printed name of the Judge	





**LIKHA – PROJECT PROPOSAL TEMPLATE**

<b>(1) PROJECT PROFILE</b> Project Title: _____ Names of Project Proponent/s: _____ Region: _____ Division _____ School: _____ Grade Level: _____ Project Duration (number of months): _____ Email: _____ Contact number: _____	
<b>(2) CATEGORY OF RESEARCH</b> <input type="checkbox"/> Physical Science <input type="checkbox"/> Life Science <input type="checkbox"/> Robotics and Intelligent Machines <input type="checkbox"/> Mathematics and Computational Sciences	<b>(4) THEME</b> <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) _____
<b>(3)</b> <input type="checkbox"/> Individual <input type="checkbox"/> Team	
<b>(5) EXECUTIVE SUMMARY</b> (not to exceed 200 words)	
<b>(6) INTRODUCTION</b>	
<b>(6.1) RATIONALE/SIGNIFICANCE</b> (not to exceed 300 words)	
<b>(6.2) SCIENTIFIC BASIS/THEORETICAL FRAMEWORK/MATHEMATICAL THEORY INVOLVED</b>	
<b>(6.3) OBJECTIVES</b> General: Specific:	
<b>(7) REVIEW OF LITERATURE</b>	
<b>(8) METHODOLOGY</b>	
<b>(9) EXPECTED OUTPUTS AND POTENTIAL IMPACTS</b>	
<b>(10) WORK PLAN AND TARGET DELIVERABLES</b>	
<b>(11) REFERENCES</b>	





(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 *STEMTok*periments 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](mailto:nstf@deped.gov.ph) with a subject format: “#SCITOKPERIMENTS\_REGION\_ENTRYNO.” (ex. “#SCITOKPERIMENTS\_ROVIII\_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:

<b>Criteria</b>	<b>Percentage</b>
Originality and Creativity <ul style="list-style-type: none"><li>• Video is original, creative and unique.</li></ul>	30%
Delivery/Execution <ul style="list-style-type: none"><li>• Delivery is well planned with smooth transitions and edits.</li><li>• Ideas are very organized and easily understood.</li><li>• All sound and visual elements coincide with the video's content.</li></ul>	30%
Accuracy of Content <ul style="list-style-type: none"><li>• All information being delivered is accurate and relevant.</li></ul>	40%
Total	100%

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



**NATIONAL SCIENCE AND TECHNOLOGY FAIR TIMELINE**

<b>Activity</b>	<b>Date/Schedule</b>
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