



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

May 16, 2022

SCHOOLS DIVISION MEMORANDUM

No. 130, s. 2022

**2022 NATIONAL SCIENCE AND TECHNOLOGY FAIR
VIRTUAL REGIONAL SCILYMPICS
AND VIRTUAL DIVISION SCILYMPICS**

**TO: PUBLIC SCHOOLS DISTRICT SUPERVISORS / OFFICERS-IN-CHARGE OF THE DISTRICT
HEADS OF INTEGRATED / SECONDARY SCHOOLS
ALL OTHERS CONCERNED**

1. Attached is DepEd Memorandum No. 038, s. 2022 titled National Science and Technology Fair 2022, and Regional Memorandum No. 352, s. 2022.
2. Anent this, the Virtual Division *Scilympics* will be held on **June 3, 2022, 9 A.M.** to be hosted by **Capiz National High School**.
3. The guidelines of this activity are found in the Enclosure of this Memorandum.
4. Foods of the judges and guests, certificates, and other expenses relative to the conduct of this activity are chargeable against Division INSET fund. Travel and other allowable expenses of all participants are chargeable against school MOOE funds. All expenses are subject to the usual accounting and auditing rules and regulations.
5. Teaching and non-teaching staff who will render services during the preparation of the Virtual Division *Scilympics* will be given service credits / compensatory leave credits for services rendered on Saturdays, Sundays and Holidays. It is understood, however, that these service credits shall be used only to offset absences and not for commutation of leave credits for purpose of monetization. Compensatory time-off is non-cumulative and should be utilized within one year. This is granted pursuant to CSC and DBM Joint Circular No. 2, s. 2004, dated October 2004.
6. Immediate dissemination of this Memorandum is desired.

SALVADOR O. OCHAVO, JR, EdD, CESO V
Schools Division Superintendent

MAY 20 2022



Address: Banica, Roxas City
Contact Number: (036)651 8456
Email Address: capiz@deped.gov.ph
Website: <http://depedcapiz.ph>



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

Enclosure: 1
Reference: DepEd Order No. 038, series 2022
Regional Memorandum No. 352, series 2022
To be indicated in the perpetual index under the following subjects:
CONTEST
SCIENCE FAIRS



Address: Banica, Roxas City
Contact Number: (036)651 8456
Email Address: capiz@deped.gov.ph
Website: <http://depedcapiz.ph>



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

Enclosure No. 1 to Schools Division Memorandum No. 130, s. 2022

2022 DIVISION SCILYMPICS GUIDELINES

1. Each District may decide on the schedule of the District *Scilympics* provided that all entries shall be submitted **on or before June 1, 2022** to the division office through this email address:
andres.quiachon@deped.gov.ph
2. The following is the composition of the districts and the assigned facilitating school per district of the activity:

#	District	Integrated / Secondary Schools	Facilitating School
1	Cuartero	Cuartero National High School Maindang National High School Putian National High School San Antonio National High School	Cuartero NHS
2	Dao	Dao National High School Arturo Jugo National High School Malonoy National High School Luis Escutin National High School	Dao NHS
3	Dumalag	Dumalag Central National High School Concepcion Castro Garcia National High School Dr. Laureano R. Frial Integrated School	Concepcion Castro Garcia NHS
4	Dumarao	Estefania Montemayor National High School Bungsuan National High School Manuel F. Onato National High School Ramon A. Benjamin, Sr. National High School Presentacion Diez Gregorio National High School Aglalana Integrated School Aglanot Integrated School	Estefania Montemayor NHS
5	Ivisan	Ivisan National High School Basiao National High School	Ivisan NHS
6	Jamindan	Jamindan National High School Jagnaya National High School Lucero National High School Macario Delfin Bermejo National High School Manuel Ganzon Advincula Integrated School	Jamindan NHS



Address: Banica, Roxas City
Contact Number: (036)651 8456
Email Address: capiz@deped.gov.ph
Website: <http://depedcapiz.ph>



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

7	Maayon	Maayon National High School Florentina B. Degala National High school Tuburan National High School East Villaflores National High School Duluan Integrated School Guinbialan Integrated School Tapulang Integrated School Canapian Integrated School	Florentina BDNHS / East Villa Flores NHS
8	Mambusao East	Mambusao East National High School David Moises National High School Bula Integrated School	Mambusao East NHS
9	Mambusao West	Mambusao National High School Agkawayan Integrated School	Mambusao NHS
10	Panay	Commissioner Luis R. Asis National High School Felix Balgos National High School Pawa National High School Bago Chiquito Integrated School	Commissioner Luis R. Asis NHS
11	Panitan	Panitan National High School Leodegario D. Deocampo, Sr. National High School Antonio Belo Integrated School Celestino D. Diaz Integrated School Felixberto Dicon Dorado Integrated School Tinigban Integrated School	Panitan NHS
12	Pilar	Marciano M. Patricio National High School Casanayan National High School San Nicolas (Pilar) National High School Dulangan National High School Yating National High School Dayhagan Integrated School Guise Integrated School Sinamongan Integrated School	Casanayan NHS
13	Pontevedra	Pontevedra National High School Jose Diva Avelino, Jr. National High School Bailan Integrated School	Pontevedra NHS / Jose Diva Avelino, Jr. NHS
14	Pres. Roxas	Feliciano Yusay Consing National High School Quiajo Integrated School	Feliciano Yusay Consing NHS
15	Sapian	Sapian National High School Ishmael B. Orillos Farm School Bilao Integrated School	Sapian NHS



Address: Banica, Roxas City
Contact Number: (036)651 8456
Email Address: capiz@deped.gov.ph
Website: <http://depedcapiz.ph>



Republic of the Philippines
 Department of Education
 Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

16	Sigma	Vicente Andaya, Sr. National High School Mianay National High School Calixto Loyola Sr. Integrated School Eleodoro J. Ponsaran IS	Vicente Andaya, Sr. NHS
17	Tapaz East	Col. Patrocinio Artuz National High School Bag-ong Barrio National High School Rev. Tomas Conejar National High School Don Leopoldo Gialogo Integrated School	Col. Patrocinio Artuz National High School
18	Tapaz West	Tapaz National High School Candelaria National High School Roxas Farm School San Nicolas National High School Camburanaan National High School	Tapaz NHS
19	Capiz NHS		Judy B. Dunton

3. The number of entries per district to be sent in the Division *Scilympics* are indicated in the table below:

Category	Number of Participants	Entry per District
1. Siyensikula	1	1
2. Likha		
<ul style="list-style-type: none"> • Life Science Individual Team 	1 Maximum of 3	2
<ul style="list-style-type: none"> • Physical Science Individual Team 	1 Maximum of 3	2
<ul style="list-style-type: none"> • Robotics and Intelligent Machines Individual Team 	1 Maximum of 3	2
<ul style="list-style-type: none"> • Mathematics and Computational Science Individual Team 	1 Maximum of 3	2
3. STEM Tokperiments		
Junior High School	1	2
Senior High School	1	
TOTAL		11



Address: Banica, Roxas City
 Contact Number: (036)651 8456
 Email Address: capiz@deped.gov.ph
 Website: <http://depedcapiz.ph>



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

4. The district entries must comply with the competition mechanics stipulated in DepEd Memorandum No. 038, s. 2022 and other issuances related to DSTF / RSTF / NSTF.
5. Peer-to-Peer Review will be assigned by the Technical Working Group (TWG) of Siyensikula to be submitted to the District Focal Person for dissemination.
6. A video presentation not to exceed 5 minutes as additional requirements for Likha shall be submitted together with required documents for this activity.
7. The paper format for Likha should be on A4 size white bond paper, 12 font, Times New Roman, double space in portrait orientation.
8. STEM TOKPeriments participants are required to fill out and submit the certification found in Enclosure No. 3 of DepEd Memorandum No. 038, s. 2022.
9. Strict adherence to National and local Inter-Agency Task Force (IATF) such as, but not limited to, the mandatory wearing of masks by all participants and members of the Technical Working Group (TWG) shall be observed in the conduct of this activity.
10. Participation in this activity is voluntary.



Address: Banica, Roxas City
Contact Number: (036)651 8456
Email Address: capiz@deped.gov.ph
Website: <http://depedcapiz.ph>



Republic of the Philippines
Department of Education
 REGION VI - WESTERN VISAYAS

REGIONAL MEMORANDUM
 No. 352, s. 2022

MAY 13 2022

**2022 NATIONAL SCIENCE AND TECHNOLOGY FAIR
 AND VIRTUAL REGIONAL SCILYMPICS**

To : Schools Division Superintendents
 All Others Concerned

1. Attached is DepEd Memorandum No. 038, s. 2022 titled *National Science and Technology Fair 2022*.
2. Anent this, the Virtual Regional Scilympics will be held on June 28-30, 2022 to be hosted by the Schools Division of Aklan.
3. The guidelines of this activity are found in the Inclosure of this Memorandum.
4. Expenses related to the conduct of the activity shall be charged against local funds subject to the usual accounting and auditing rules and regulations.
5. Teaching and non-teaching staff who will render services during the preparation of the Virtual Regional Scilympics will be given service credits/compensatory leave credits for services rendered on Saturdays, Sundays and Holidays. It is understood, however, that these service credits shall be used only to offset absences and not for commutation of leave credits for purpose of monetization. Compensatory time-off is non-cumulative and should be utilized within one year. This is granted pursuant to CSC and DBM Joint Circular No. 2, s. 2004, dated October 2004.
6. Immediate dissemination of and compliance with this Memorandum are desired.


RAMIR B. UYTICO EdD, CESO III
 Regional Director

Enclosure: 1
 References: DepEd Memo. 038, s. 2022
 Allotment: None
 To be indicated in the Perpetual Index
 under the following subjects:

CONTESTS
 SCIENCE FAIRS



Address: Duran Street, Iloilo City, 5000
 Telephone Nos: (033)509-7653; (033)336-2816
 Email Address: reg6@deped.gov.ph
 Website: reg6.deped.gov.ph

Document Name	Document No.	Date Created	Revision Number
Regional Memorandum	DepEd RO6-CLMD	05-13-2022	

2022 Regional Scilympics Guidelines

1. The Division Office may decide on the schedule of the Division Scilympics provided that all entries shall be submitted on or before June 10, 2022 to the regional office through this email address: rovelsalcedo@deped.gov.ph.
2. Each Schools Division shall submit a video presentation of not more than three minutes showing highlights of the conducted Division Scilympics.
3. The number of entries per schools division to be sent in the Regional Scilympics are indicated in the table below.

Category	Number of Participant	Total Entry
1. Siyensikula	1	1
2. Likha		
Life Science Individual Team	1	2
	Maximum of 3	
*Physical Science Individual Team	1	2
	Maximum of 3	
*Robotics and Intelligent Machines Individual Team	1	2
	Maximum of 3	
*Mathematics and Computational Sciences Individual Team	1	2
	Maximum of 3	
3. STEM Tokperiments		
Junior High School	1	2
Senior High School	1	
Total		11

4. The Schools Divisions entries must comply with the competition mechanics stipulated in DepEd Memo No. 038, s. 2022 and other issuances related to RSTF/NSTF.
5. Peer-to-Peer Review will be assigned by the Technical Working Group (TWG) of Siyensikula to be submitted to the Division Science Supervisors for dissemination.
6. A video presentation not to exceed for 5 minutes as additional requirement for Likha shall be submitted together with required documents for this activity.
7. The paper format for Likha should be on A4 size white bond paper, 12 font, Times New Roman, double-spaced in portrait orientation.
8. STEM TOKPeriments participants are required to fill out and submit the certification found in Enclosure No. 3 of DepEd Memo No. 038, s. 2022.
9. Strict adherence to National and local Inter-Agency Task Force (IATF) such as, but not limited to, the mandatory wearing of masks by all participants and members of the Technical Working Committee (TWG) shall be observed in the conduct of this activity.



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 or telephone numbers (02) 8632-7746 and (02) 8635-9822.
11. Immediate dissemination of this Memorandum is desired.


LEONOR MASTOLIS 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					
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 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 *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 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:

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