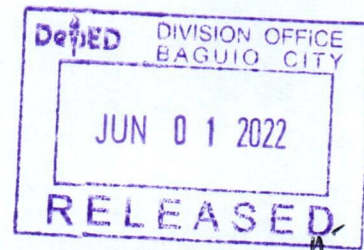




Republic of the Philippines  
Department of Education  
Cordillera Administrative Region  
SCHOOLS DIVISION OF BAGUIO CITY



May 30, 2022

DIVISION MEMORANDUM

No. 150, s. 2022

**DIVISION SCIENCE FESTIVAL 2022**

To: CID Chief Education Supervisor  
Science Education Program Supervisor  
Public Schools District Supervisors  
Public and Private Schools  
All Others Concerned

1. Relative to the DepEd Memorandum 038, s.2022 re: National Science and Technology Fair 2022, RM 228.2022 re: Regional Science and Technology Fair (RSTF) 2022 and department's program to enhance the scientific and creativity skills of learners amid changing world, this office through Curriculum Implementation Division (CID) will conduct the 2022 Division Science Festival through hybrid platform.
2. The activity aims to:
  - 2.1 provide teachers and learners with the opportunity to discover the practical applications of science; and
  - 2.2 enhance the skills and creativity of teachers and learners on science investigation and innovation.
3. The following events and competitions in the Division Science Festival 2022 are the following:
  - 3.1 LIKHA- a Research Proposal Competition
  - 3.2 SIYENSIKULA- an original video creation and competition
  - 3.3 STEMtokperiments-a Tiktok Science Experiments Competition
  - 3.4 AghamBayaniJuan-a public community exhibition of partners in Science, Technology, Research, and Innovation
4. The timeline, mechanics and rubric evaluation tools for judging are attached as an enclosure for your reference.
5. Participants for the activity are the public elementary and secondary schools of Baguio City.
6. Participants in all activities need to strictly comply with protocols on social distancing and implement precautionary measures consistent with the IATF health protocols, DOH protection protocols, local quarantine rules and all other relevant protocols outlined in DepEd and DepEd Task Force COVID-19 issuances.
7. For queries, please contact Loida C. Mangangey through this number: 09182506952.
8. Immediate dissemination of this memorandum to all concerned is desired.

**FEDERICO P. MARTIN, CEEd, EdD, CESO V**  
Schools Division Superintendent



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Enclosure 1 to Division Memorandum No. 150, s. 2022

**TIMELINE**

**A. Elementary**

Activity	Date / Schedule	Submission	Mode of submission
Siyensikula, LIKHA & STEMtokperiments	June to September, 2022	September 9, 2022	online link:

**Note: The mechanics, criteria, and Rubric Evaluation Tool to be used for JHS & SHS will also be used for elementary except that the activity is for division level only.**

**A. Secondary**

Activity	Date of Submission/schedule	Mode of submission
Siyensikula, LIKHA & STEMtokperiments	<b>June 17,2022</b>	online except for LIKHA to be submitted with hard copy  link for the submission of entries: <a href="https://tinyurl.com/5dr82k5w">https://tinyurl.com/5dr82k5w</a>
Division Judging & Revision	June 18-23,2022	
Submission of Revised entry	June 24,2022	
Submission to Regional Office	June 27, 2022	



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Enclosure 2 to Division Memorandum No. 150, s. 2022

**Siyensikula Mechanics**

**Siyensikula Mechanics**

1. This competition is open to all Junior and Senior High School students from both Public and Private Schools in the country. Only individual entries are allowed for the siyensikula.
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 division may send 1 official entry to the Regional Siyensikula competition.
6. Entries must be submitted following subject format: "SIYENSIKULA DIVISION Video Title" STYENSIKULA Benguet 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.



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Enclosure 3 to Division Memorandum No. 150, s. 2022

**Siyensikula Rubric Evaluation Tool**

Siyensikula - Rubric Evaluation Tool						
Entry No.						
Criteria	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)						



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Enclosure 4 to Division Memorandum No. 150, s. 2022

**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 \_\_\_\_\_ 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.**



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Enclosure 5 to Division Memorandum No. 150, s. 2022

**Likha-A Full Proposal Research Competition**

**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 Team	Individual Team	Individual Team	Individual 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:

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



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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.



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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.



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Enclosure 6 to Division Memorandum No. 150, s. 2022

**LIKHA- RUBRIC EVALUATION TOOL (SCREENING & FINAL JUDGING)**

**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 address? 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?	
<b>TOTAL</b>	
Signature over printed name of the evaluator	



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**LIKHA - RUBRIC EVALUATION TOOL (FINAL JUDGING)**

CRITERIA	POINT
<p>1. Originality and Innovation (20)</p> <p>1. Does the project show originality and innovation in terms of:</p> <p>a. proposed approach in solving the problem?</p> <p>b. research design?</p> <p>c. research methodology?</p> <p>d. construction or design of a new or improved equipment?</p> <p>2. Did the research project considered an issue/problem/gap that previous research projects did not addressed?</p> <p>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>	
<p>2. a. Technical/Scientific Merit (20)</p> <p>(If an engineering project, please see 2b. Engineering Goals )</p> <p>1. Is the problem stated explicitly and concisely?</p> <p>2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)?</p> <p>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?</p> <p>4. Does the finalist/team recognize the projects' limitations?</p> <p>5. Does the analysis of background information with depth?</p> <p>b. Engineering Goals</p> <p>1. Does the project have a clear objective?</p> <p>2. Is the objective relevant to the potential user's needs?</p> <p>3. Is the solution: workable? Acceptable to the potential user? Economically feasible?</p> <p>4. Could the solution be utilized successfully in design or construction of an end product?</p> <p>5. Is the solution a significant improvement over previous alternatives or application?</p> <p>6. Will the solution be tested for performances under standardized protocols?</p>	
<p>3. Community Connection and Impact (20)</p> <p>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)</p> <p>2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society?</p> <p>3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?</p>	
<p>4. Excellence of Method (20)</p> <p>1. Was the research methods supported by relevant and credible related literatures?</p> <p>2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives?</p> <p>3. Are the variables clearly identified and defined?</p> <p>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?</p> <p>5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed?</p> <p>6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected?</p> <p>7. Does the project recognize ethical or safety issues and has adequate plans to manage risks?</p> <p>8. Does the project include appropriate protocols/procedures for waste disposal and data analysis?</p> <p>9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?</p>	
<p>5. Presentation (20)</p> <p>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.</p> <p>2. Does the written material reflect the finalist's or team's understanding of the research proposal?</p> <p>3. Are the important phases of the project presented in an orderly manner?</p> <p>4. How clearly is the rationale presented?</p> <p>5. How clearly are the research methods presented?</p> <p>6. Did the student used presentation resources as guide?</p> <p>7. Is the presentation professional with the use of colors, fonts and graphics?</p> <p>8. Did the student speaks clearly, maintains eye contact and uses appropriate scientific language?</p> <p>9. Did the student provided clear, detailed and accurate answers to the questions given?</p>	
<p>TOTAL</p> <p>Signature over printed name of the Judge</p>	



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Enclosure 7 to Division Memorandum No. 150, s. 2022

**LIKHA-PROJECT PROPOSAL TEMPLATE**

**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>	



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Enclosure 8 to Division Memorandum No. 150, 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](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.



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**Republic of the Philippines**  
**Department of Education**  
**Cordillera Administrative Region**  
**SCHOOLS DIVISION OF BAGUIO CITY**

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%
<b>Total</b>	<b>100%</b>



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