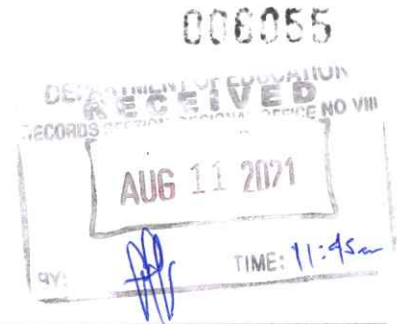


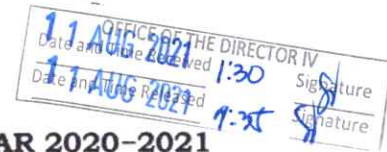


Republic of the Philippines
Department of Education



10 AUG 2021

DepEd MEMORANDUM
No. 053, s. 2021



NATIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL YEAR 2020-2021

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. The current situation brought about by the COVID-19 Pandemic posed many challenges to the delivery of education services. However, this Pandemic also magnified the role of Science and Research in providing specific and effective solutions to global challenges and issues.
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) 2020-2021** with the theme: *Agham, Pananaliksik at Teknolohiya: Kabalikat sa Matatag at Maunlad na Pamayanan*. However, with the restriction imposed due to the health crisis, the conduct of the NSTF 2021 will adopt a different set of competition and guidelines.
3. This year's NSTF aims to develop among the youth **resiliency, innovation, and creativity amidst global crisis**. This Competition also aims to showcase competence of the learners in addressing community problems for sustainable development and to maximize their potentials of being inquisitive and creative in dealing with real life problems.
4. The NSTF 2021 will be held using online platform in coordination with the regional offices and partners. The Virtual NSTF will banner *Siyensikula*, which is an original video competition focusing on science and engineering concepts, virtual exhibits, virtual fora, workshops, career talks, technology and project launching, and film showing. This activity will highlight different trends, innovative solutions, and new Science and Technology knowledge related to education, safety, health, disaster preparedness, and community development.
5. The regional offices may conduct their own selection and screening process for their entries and participants in the National Science and Technology Fair.
6. Participation in the school, division, regional and national Science Technology Fair is voluntary. Announcement of national finalists and awarding ceremony will be on **September 3, 2021**.

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7. Strict adherence to national and local IATF protocols must be observed in all levels of the competition such as, but not limited to, the mandatory wearing of mask and face shield by all participants and members of the Technical Working Committee.

8. All expenses related to the conduct of the NSTF 2021 such as communication allowance, prizes and 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/SDO, subject to the usual accounting and auditing rules and regulations.

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

- a. Enclosure No. 1 - *Siyensikula-Mechanics*
- b. Enclosure No. 2 - *Siyensikula-Criteria/Peer to Peer Evaluation Tool*
- c. Enclosure No. 3 - *Timeline NSTF 2021*
- d. Enclosure No. 4 - *Siyensikula Waiver and Certification*
- e. Enclosure No. 5 - *Useful Resources for the Various Competitions*

10. For more information, please contact **Ms. Anna Liza M. Chan**, Senior Education Program Specialist, Bureau of Curriculum Development-Curriculum Standards 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 at 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. 113, s. 2019

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

CELEBRATIONS AND FESTIVALS
CONTESTS
LEARNERS

SCIENCE EDUCATION
SCHOOLS





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.
2. The **participant** must discuss a difficult topic under Physical Sciences, Life Sciences, Mathematics or an Engineering concept in a clear, creative and engaging manner through a video presentation that is not more than three (3) minutes. The participant can discuss the topic in English and/or Filipino.
3. All contents in the video must be original and are owned by the participant. Entries may include **personal experiences** and thoughtful observations. Videos must reflect that the student has carefully examined and thought through the topic.
4. All creative visual tools such as animations, simulations, physical demonstrations, or visual aids are allowed. List and cite all of the resources used including but not limited to images, audio, video clips, books, articles, etc.. Use public domain sites for your references and resources. Entries with photos and videos which are derivative works will automatically be **disqualified**.
5. Each region may send a **maximum of three (3) official entries** to the National Siyensikula Competition. They should be properly endorsed by the Regional Director through an endorsement letter on or before the deadline of submission in the national level on August 23, 2021.
6. Entries must be submitted via email to **nstf@deped.gov.ph** not later than **August 23, 2021** with a subject format: "SIYENSIKULA_REGION_VideoTitle" (ex. SIYENSIKULA_ROVIII_Ligtas).
7. The email should include: (1) the name of the participant, (2) Youtube 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 (4) Certification. Non-submission of any of the required documents of the competition entry will automatically be disqualified.
8. There will be three stages in the judging process:
 - a. **PEER-TO-PEER REVIEW (1st Stage)** - 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 of which aims at providing an honest and sincere assessment of the Peers' Entries. The contest committee will assign the peers who will review the entries of other contestants. The criteria for judging is found in *Enclosure No. 2*.
 - b. **POPULAR VOTE (2nd Stage)** - The Popular Vote invites the public to participate in the judging process for the **Siyensikula** through the official facebook page of the Department of Education. The Popular Vote Entry

with the highest combined total of Likes, Shares and positive reactions (Like, Love, Haha, Wow) on the video's original post on the DepEd official Facebook page. The top-scoring Popular Vote Entry will receive a special recognition for this accomplishment.

- c. **EVALUATION AND SELECTION COMMITTEE REVIEW (*Final Stage*)** – 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** with the results of the Peer to Peer Evaluation and Popular Vote.
10. The entry with the **highest score** in the Final stage shall be declared as Champion and will be given a medal and a certificate.
11. All the winning entries will receive certificates and will be posted in the official Facebook page of the National Science and Technology Fair and DepEd Philippines with the permission and proper acknowledgement of the creators/participants. Participants must submit a duly notarized Certification. (*Enclosure No. 4*)
12. This competition is inspired by the international breakthrough junior challenge. To have a greater grasp of the competition, the links of the previous winning entries of the breakthrough junior challenge are found in *Enclosure No. 5*.



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DEPED-ORIG-445848

(Enclosure No. 2 to DepEd Memorandum No. 053, s. 2021)

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

Total
(Maximum
of 20 points)

(Enclosure No. 3 to DepEd Memorandum No. 053, s. 2021)

NATIONAL SCIENCE AND TECHNOLOGY FAIR TIMELINE

Activity	Date/Schedule
Submission of Entries for the National Level Science and Technology Fair	August 23, 2021
National Level - Preliminary Screening of Entries	August 26, 2021
National Science and Technology Fair Culmination Program and Awarding Ceremony	August 30 – September 3, 2021



Isinagawang ng DepEd

DEPED-OSEC-445648



(Enclosure No. 4 to DepEd Memorandum No. 053, s. 2021)

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 _____, 2021 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 2021

Note: Please submit this form together with your entries on or before the Deadline of submission.



(Enclosure No. 5 to DepEd Memorandum No. 053, s. 2021)

USEFUL RESOURCES FOR THE VARIOUS NSTF 2021 COMPETITIONS

SIYENSIKULA

Junior Breakthrough Challenge

<https://breakthroughjuniorchallenge.org/>

How to Upload Videos in Youtube

<https://www.youtube.com/watch?v=b5oZJa5kFzM>

Maryam Tsegaye, Canada, Physics, Winner: 2020 Breakthrough Junior Challenge

<https://www.youtube.com/watch?v=vg2rnjZ19PY>

Andrew Li, USA, Math, Finalist: 2020 Breakthrough Junior Challenge

<https://www.youtube.com/watch?v=ZfvUPrNz4O4>

Tips for Breakthrough Junior Challenge | Q&A

<https://www.youtube.com/watch?v=IqCMpePKGs4>

Tips for Breakthrough Junior Challenge | Editing, Animation, and Style

<https://www.youtube.com/watch?v=T7kLONPnXkQ>

How to look for free photos, videos and animations:

<https://creativecommons.org/licenses/>

Other useful resources:

<http://hillaryandales.com/bjcreources/>