



Republic of the Philippines
Department of Education
REGION III – CENTRAL LUZON
SCHOOLS DIVISION OFFICE OF NUEVA ECJA

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RECORDS SECTION

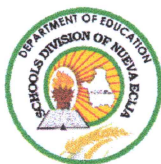
15 July 2021

DIVISION MEMORANDUM
No. 184, s.2021

VIRTUAL DIVISION SIYENSIKULA 2021

To: Assistant Schools Division Superintendents
Chiefs of Division, CID and SGOD
Education Program Supervisors
Public Schools District Supervisors
Public Secondary School Heads
Private School Administrators
Science Department Heads/Area Chairs
Junior and Senior High school Science Teachers
All Others Concerned

1. Relative to the conduct of the National Science and Technology Fair 2021 with the theme “Agham, Pananaliksik, at Teknolohiya: Kabalikat sa Matatag at Maunlad na Pamayanan” SDO Nueva Ecija through the Curriculum Implementation Division (CID) announces the conduct of the Virtual Division Siyensikula 2021 in all private and public Junior and Senior High Schools on July 27, 2021 via Google meet at 8:00a.m.-5:00p.m.
2. The activity involves the creation of original video focusing on the topics under Physical Sciences, Life Sciences, Mathematics or Engineering concepts in a creative, engaging, illuminating manner through a video presentation that will challenge the learners to explain a very difficult concept either in Mathematics or Science in the most creative and engaging way which will develop their creativity and Science communication skills. It can also inspire and encourage learners to embrace Science Technology Engineering and Mathematics (STEM) strand.
3. The short videos can be used by teachers in the classroom in many ways. It can be used as an introductory video before discussing a concept in Science and Mathematics. It can take the form of an assessment or of a performance standard. These videos can also be used in the teaching - learning process not only during this pandemic but as a useful learning resource material in the years to come.
4. The activity aims to:
 - 4.1. create visuals and demos, script and storyboard for the chosen topics,
 - 4.2. discuss difficult topics in science and mathematics through creative and authentic video presentation based on personal experiences and thoughtful observations of the participant,
 - 4.3 develop short videos that can be used to explain a certain topic in Science, Math and Engineering. in language that learners appreciate and understand and;
 - 4.4. select entries and participate in the National Science Technology Fair2021.
5. Participants in the competition are public and private Junior and Senior High School students who will compete on the basis of being able to explain difficult concepts beyond their grade level in the most creative and illuminating way.



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6. Enclosures No.1-5 are attached in this memorandum.

Enclosure No.1 The Siyensikula Mechanics

Enclosure No.2 Siyensikula Rubric Evaluation Tool

Enclosure No.3 National Science and Technology Fair Timeline

Enclosure No.4 Sample Certification

Enclosure No.5 Useful resources for the various NSTF 2021 competitions

7. For more information, please contact Mrs. Rosemarie Z. Burayag, Division Science Education Program Supervisor at rosemarie.burayag001@deped.gov.ph

8. Immediate and wide dissemination of this Memorandum is hereby enjoined.

JESSIE D. FERRER, CESO V
Schools Division Superintendent



RONILO E. HILARIO
Assistant Schools Division Superintendent

Encl: As stated

Reference: National Science Technology Fair 2021

To be included in the Perpetual Index

under the following subjects:

SCIENCE AND TECHNOLOGY FAIR CONTEST

DM 2021 Online Division Siyensikula
03/RZB 07-15-2021

SIYENSIKULA MECHANICS

1. This competition is open to all Junior and Senior High School students from both Public and Private Schools in SDO Nueva Ecija. 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 school may send a **maximum of three (3) official entries** to the Division Siyensikula Competition. They should be properly endorsed by the School Principala through an endorsement letter on or before July 22, 2021
6. Entries must be submitted via email to rosemarie.burayag@deped.gov.ph not later than **July 26, 2021** with a subject format: "SIYENSIKULA_SCHOOL_VideoTitle" (ex. SIYENSIKULA_SCIENCE NHS_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. 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 Science Group – SDONE Science Virtual Hub. 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 SDO Nueva Ecija 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*.

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 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 Division Memorandum No. _____, s. 2021

NATIONAL SCIENCE AND TECHNOLOGY FAIR TIMELINE

Activity	Date/Schedule
Submission of Entries for the National Level Science and Technology Fair	August 10, 2021
National Level - Preliminary Screening of Entries	August 11 - 13, 2021
National Science and Technology Fair Culmination Program and Awarding Ceremony	August 16 - 19, 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 Division Memorandum No. _____, 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/bjresources/>