



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

April 26, 2021

DIVISION MEMORANDUM

No. 099, s. 2021

DIVISION VIRTUAL SCIENCE AND TECHNOLOGY FAIR 2021

TO : Assistant Schools Division Superintendent
Chief Education Supervisors, CID & SGOD
Public Schools District Supervisors,
Public & Private Elementary & Secondary School Heads
All Concerned

1. The field is hereby informed of the conduct of the Division Virtual Science and Technology Fair with the theme: **Agham, Pananaliksik at Teknolohiya:Kabalikat sa Matatag at Maunlad na Pamayanan** on **May 20, 2021**.
2. This activity aims to develop among our youth resiliency and creativity amidst a global crisis, cultivate among learners to be competent enough in handling community problems for sustainable development, and encourage our youth to maximize their potentials of being inquisitive and creative when dealing with challenges in real life.
3. With the current challenges brought about by the COVID – 19 Pandemic, National Science and Technology Fair (NSTF) will adopt a different set of competition and guidelines on the conduct of the NSTF 2021. In line with this, the following contests will be conducted:
 - (a) *Siyensikula* – an original video competition
 - (b) Digital/Traditional Poster Making Contest
 - (c) NSTF Official Jingle Contest.
 - (d) *#SciTokperiments*-A Tiktok Competition
4. Expenses relative to the conduct of the said activity shall be charged against School MOOE, club fund, and other source of funds subject to the usual accounting and auditing rules and regulations.
5. *Division Science and Technology Fair* Events, Guidelines, and Mechanics are contained in Enclosures No. 1, 2, 3 & 4.
6. All officers of Science Teachers Association of the City of Kabankalan (STACK), and school science coordinators are requested to attend the virtual orientation at 9 o'clock in the morning on May 10, 2021 via Google Meet (link will be posted later).
7. Widest dissemination of this Memorandum is highly enjoined.

PORTIA M. MALLORCA, PhD, CESO V
Schools Division Superintendent



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(Enclosure No. 1 to Division Memorandum No. 099, s. 2021)

SIYENSIKULA - MECHANICS

1. Each District should only have one (1) official entry to the Division Siyensikula Competition. But for schools with Special Curricular Program like Science, Technology and Engineering (STE) can have two (2) entries.
2. This competition is open to all Junior High School students from both Public and Private Schools in the division. Maximum of three 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.
3. The participant/s must discuss a topic under Physics, Life Sciences, Mathematics, or an Engineering concept in a creative, engaging, and illuminating manner through a video presentation that is no more than three (3) minutes. The participants can discuss the topic in English and/or Filipino.
4. 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 examined and thought through the topic.
5. 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**.
6. Entries must be submitted via email to **analie.almaiz@deped.gov.ph** not later than **May 13, 2021** with a subject format of "SIYENSIKULA_District_VideoTitle" (ex. SIYENSIKULA_K1_Ligtas).
7. The email should include: (1) the name/s of the participant/s, (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 of 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 the Peers' Entries. The Peer-to-Peer will be **May 14, 2021**. A google meet link will be provided to all members of the contest committee 30 minutes before the schedule of the review.
 - 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 Kabankalan City on **May 18, 2021**. The Popular Vote Entry with the highest combined total of Likes, Shares and positive reactions (Love, Haha, Wow) on the video's original post on the DepEd, Kabankalan City Facebook page. The top-scoring Popular Vote Entry may also receive 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 agreed criteria on **May 19, 2021**.



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9. The first two stages of the competition are independent with the evaluation result of the Selection Committee. The entry with the highest percentage 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 in the official Facebook page of DepEd, Kabankalan City with the permission and proper acknowledgement of the creators/participants.
11. This competition is heavily inspired by the international breakthrough junior challenge. To have a greater grasp of the competition, here are the links of the previous winning entries of the breakthrough junior challenge:

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 and held viewer's attention for the entire length of the video	fairly interesting and held the viewer's attention for the entire length of the video	Interesting and viewer felt engaged throughout the entire length to 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 make 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 clearly 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	Subject matter is typically covered at the advanced college level or higher
Total (Maximum of 20 points)						




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Peer to Peer Review (Evaluation Tool)					
Entry No.:					
Name of Evaluator:					
Area	5	4	3	2	1
Illumination					
Engagement					
Difficulty					
Creativity					
Total					

SIYENSIKULA – CRITERIA			
Entry No.			
Criteria	Description	Percentage	Score
Engagement	The video captured the viewer's interest and wanted to keep watching the video to the end.	10	
Creativity/ Originality	The participant/s made an effort to approach the subject matter in an innovative and creative way.	20	
Content	The information presented in the video are right, accurate, and updated. All footages and clips are original and owned by the participant/s. All references are properly cited in the script.	30	
Illumination	The video explained the subject matter clearly, allowing the viewer to develop a genuine understanding of the video's content. The participants made an effort to laymanize technical terms that is understood by many.	30	
Relevance	The subject matter discussed is socially relevant.	10	
Total		100	
Name and Signature of Judge:			
Date Accomplished:			



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(Enclosure No. 2 to Division Memorandum No. 099, s. 2021)

POSTER MAKING CONTEST – MECHANICS

A. DIGITAL

1. Each district should only have one (1) official representative in each category for the digital poster making contest. But for schools with Special Curricular Programs like Special Science in Elementary Schools (SSES) and Science, Technology and Engineering (STE) can have two (2) entries.
2. There will be three categories (a) Elementary (b) Junior High School (c) Senior High School.
3. Entries must be sent in A4 size (Portrait or Landscape) in JPEG/PNG format to **analie.almaiz@deped.gov.ph** on or before **May 13, 2021**. Official entry must include the complete name of the contestant and complete school name, along with the one-paragraph description of the poster.
4. The final output of each contestant must be submitted via email to **analie.almaiz@deped.gov.ph** with a subject format of "POSTER_SCHOOL_Category" (ex. POSTER_ERAMS-West_ ELEM).
5. The digital poster for the contest must illustrate, interpret, emphasize, and expound the given theme that will be provided during the competition.
6. Contestants will be given 2 hours to complete the poster and shall be monitored via Google Meet by DSTF-TWG. Non-compliance means an automatic disqualification.
7. Participants may use any Digital Art software (Photoshop, Paint, Procreate, etc).
8. Any artwork in the poster must be in original design. Poster designs containing clip-art will not be considered by judges. The artist will be held accountable to any issues that may arise with regards to the originality and authenticity of the design.
9. A one-paragraph explanation and description of the artwork (in ENGLISH) limited to 100-200 words must be attached to the email upon submission of the entry.

DIGITAL POSTER MAKING CONTEST - CRITERIA

Criteria	Points
Structure and Style	20
Originality and Creativity	30
Content	30
Relevance to the Theme	20
Total	100

B. TRADITIONAL

1. Each district must have only one (1) official entry.
2. There will be three (3) categories (a) Elementary (b) Junior High School (c) Senior High School.
3. The contestant must illustrate, interpret, emphasize, and expound on the DSTF 2021 theme in a 1/8 illustration board using oil pastel.
5. The finished poster must be submitted in 8.5x11 inches (300 DPI) in size. The poster entries must be submitted in JPEG/PNG/PSD format.



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6. The final output of each contestant must be submitted via email to analie.almaiz@deped.gov.ph on **May 13, 2021** with the subject format: "POSTER_DISTRICT_Category" (ex. POSTER_KIII_ELEM.)

6. A time-lapses recorded video of the participant drawing the poster must be submitted. A time lapse of two hours will be given to each contestant to finish the poster. Non-compliance will result to automatic disqualification.

7. The poster must be an original design. The contestant will be held accountable to any issue that may arise with regard to the originality and authenticity of the design.

Criteria	Points
Visual Impact and Color Harmony	25%
Originality	25%
Creativity	20%
Relevance to the theme	30%
Total	100%



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(Enclosure No. 3 to Division Memorandum No. 099, s. 2021)

JINGLE MAKING CONTEST – MECHANICS AND CRITERIA

1. The contest is open to all pupils/students from both public and private elementary and secondary schools.
2. Can be an individual, a pair, or a group of three (3) members. ***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.***
3. Each district shall only have one (1) official entry, but for schools with Special Curricular Programs like Special Science in Elementary Schools (SSES) and Science, Technology and Engineering (STE) can have two (2) entries.
4. The jingle must be an original composition and must not have been used as entry in any song competitions.
5. The content of the jingle must be lively, appealing, creative and must highlight the vision and mission of the National Science Fair. Below are the aims of NSTF:
 - a. to promote and develop science and technology awareness to the public
 - b. to foster a culture of innovation among the youth.
 - c. to provide an opportunity for collaboration among students, teachers, researchers, entrepreneurs, scientists, industries and communities.
6. The use of offensive and rude words is strictly prohibited.
7. Any musical instrument can be used as accompaniment at the composer's discretion.
8. The jingle must be in mp3 format. Length of Jingle should not be more than three (3) minutes inclusive of intro and outro-music.
9. Jingle Entries together with a brief write up of the entry's inspiration and origin must be submitted via email to **analie.almaiz@deped.gov.ph** not later than **May 13, 2021** with a subject format of "JINGLE_SCHOOL_LASTNAME OF COMPOSER/S.
10. Entries may be written in English or Filipino.
11. The winning piece will be used as the official entry to the Regional Science and Technology Fair.
12. The right of ownership shall remain with the original composer of the winning jingle entry. However, DepEd shall be allowed to use the winning entry for the production of an improved version if needed for official use and distribution.

DSTF JINGLE MAKING CONTEST – CRITERIA

Criteria	Points
Originality (creativity, use of structure, vocals)	30
Musicality (catchy Melody, lively music, arrangement, rhythm and recall)	30
Relevance to the Vision/Mission of NSTF (content, substance, organization, clarity of message)	30
Appeal/Impact	10
Total	100



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(Enclosure No. 4 to Division Memorandum No. 099, s. 2021)

**#SCITOKPERIMENTS – A TIKTOK SCIENCE EXPERIMENT
COMPETITION MECHANICS**

1. This competition is open to all Junior and Senior High School students from both Public and Private schools in the division.
2. There will be two (2) categories (a) Junior High School (b) Senior High School. The video entry should feature only one (1) Tiktok user.
3. The participant must design an experiment providing 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.
4. The participant can explain the topic/concept in English or Filipino.
5. The Tiktok Video must use the hashtag #SCITOKPERIMENTS and #DSTF2021 in uploading the video entry in Tiktok.
6. 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.
7. 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.
 - Dimension:** Tiktok video dimensions should be 1080x1920
 - Aspect ratio:** The aspect ratio should be that of a standard smartphone screen, 9:16.1:1 is also possible, but it won't take up the whole screen.
 - File type:** Tiktok supports .mp4 and .mov files
8. Entries must be submitted via email to analie.almaiz@deped.gov.ph not later than May 13, 2021 with a subject format: "#SCITOKPERIMENTS_DISTRICT_ENTRYNO._"
(ex. "#SCITOKPERIMENTS_KV_EntryNo.1)
9. DepEd-DSTF 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.
10. Entries submitted to "#SCITOKPERIMENTS do not represent DepEd and the DSTF Technical Working Group.
11. The Tiktok Video will be judged according to the following criteria

Criteria	Percentage
Creativity	25%
Delivery/Execution	25%
Accuracy of Content	40%
Engagement (likes, comments, shares, reactions)	10%



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	Total	100%
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(Enclosure No. 5 to Division Memorandum No. 099, s. 2021)

SUGGESTED RESOURCES FOR THE VARIOUS DSTF 2021 COMPETITIONS

SIENSIKULA

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=ZfuUPrNz404>

Tips for Breakthrough Junior Challenge | Q&A

<https://www.youtube.com/watch/vIqCMpePKGs4>

Tips for Breakthrough Junior Challenge |Editing, Animation and Style

<https://www.youtube.com/watch?v=T7kL0NpnXkQ>

POSTER MAKING

How to use Oil Pastel

https://www.youtube.com/watch?v=fRC1uN9q_KO

JINGLE MAKING

How to get started with REMOTE MUSTC COLLABORATION

https://www.youtube.com/watch?v=YUnCo_CYWM8&list=RDYUnCo_CYWM8&index=1

How to record a Remote Worship Team Video | Step by Step Tutorial w/ easy gear setup

https://www.youtube.com/watch?v=IO8elNe0nMQ&list=RDYUnCo_CYWM8&index=3

#SciTokperiments

10 Best Science Experiment Tiktok Accounts for Kids to Follow

<https://www.ronyestech.com/2020/05/best-science-experiment-tiktok-accounts.html>



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