

Republic of the Philippines  
**Department of Education**  
Region VII \_ CENTRAL VISAYAS  
SCHOOLS DIVISION OF BOHOL

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Office of the Schools Division Superintendent

May 23, 2022

**DIVISION MEMORANDUM**

No. 0335 s. 2022

**DIVISION SCIENCE AND TECHNOLOGY FAIR 2022**

**To:** Public Schools District Supervisors  
Elementary & Secondary School Principals  
JHS/SHS Technical Working Group  
All Others Concerned

1. This office announces the conduct of the Division Science and Technology Fair 2022 with the theme "Expanding the Horizon: Futures of STEM" which will be held through virtual platforms.
2. The activity aims to empower the youth and cultivate innovation, and creativity amid the changing world. The 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.
3. The DSTF 2022 will follow these phases and schedules:
  - 3.1 **District Level** – This is intended for the screening and review of the submitted entries from the schools. Submission of entries will be on May 25, 2022 from 1:00 -5:00 pm through this link: [bit.ly/SDOBholSTF2022](https://bit.ly/SDOBholSTF2022). The screening and review of entries will be on May 26, 2022 through a virtual platform.
  - 3.2 **Congressional Level** – This will be done virtually by the designated DSTF screening committee per CD. Top three finalists will be chosen per CD but **only the top 1 finalist per contest category will be uploaded to the same link to compete in the SDO level competition**. Uploading will be done by the designated Focal Persons namely: CD 1 – Marvin Plaza; CD 2 – Angeline Andales; CD 3 – Caryll Bianca Dano. The CD level competition is set on the following dates:
    - CD 1 – May 30, 2022
    - CD 2 – May 31, 2022
    - CD 3 – June 1, 2022
  - 3.3 **SDO Level/ Final Round** – This is intended to highlight the Top 3 finalists in all categories via virtual presentation. **Again, only the Top 1 finalist will be uploaded to compete in the regional competition. This will be done on June 3, 2022.**
4. **Venue and Participants**– Members of the Division Science and Technology Fair 2022 screening committee who will manage the congressional level and division level competitions, CID Chief, EPS

Science, and secretariat shall be at **Reyna's Haven and Garden on May 30, 31, 2022 to June 1 and 3, 2022**. The activity starts at 8:00 am.

5. The DSTF 2022 will adopt the following NSTF 2022 banner contests and formats:
  - 5.1 Likha – (A full proposal competition in Life Science, Physical Science, Robotics and Computational Science)
  - 5.2 Siyensikula – (An original video creation competition)
  - 5.3 STEMtokpirements – (A Tiktok science experiment competition)
6. Enclosed are the following for reference:
  - 6.1 Enclosure 1 – Program Schedule Matrix for each round
  - 6.2 Enclosure 2 – Management Team
  - 6.3 Enclosure 3 – DepEd Memorandum No. 038 s. 2022 (NSTF)  
NSTF Contest Guidelines and Mechanics  
NSTF Contest Criteria  
NSTF Contest Forms
  - 6.4 Enclosure 4 – Regional Memorandum No. 037 s. 2022 (RSTF)
7. Travel expenses, meals, and incidental expenses incurred by the judges and secretariat shall be charged to School/ Division MOOE /local funds subject to the usual COA rules and regulations.
8. Immediate action and strict compliance of this Memorandum is desired.

  
**BIANITO A. DAGATAN Ed D, CESO V**  
Schools Division Superintendent 

DIVISION SCIENCE AND TECHNOLOGY FAIR 2022

CONGRESSIONAL DISTRICT and SDO ROUND – PROGRAM MATRIX

CD 1 – May 30, 2022

CD 2 – May 31, 2022

CD 3 – June 1, 2022

SDO – June 3, 2022

7:00-7:45 AM

Registration

8:00-9:00 AM

Opening Program

Preliminaries

Messages

District Shout Out

Contest Mechanics

9:00-12:00

Break Out Rooms by Categories

Likha Individual Category

- Likha – Life Science
- Likha – Physical Science
- Likha – Mathematics and Computational Science
- Likha – Robotics & Intelligent Machines

Awarding

12:01 – 12 – 59 PM

LUNCH BREAK

1:00-3:00 PM

Likha Team Category

- Likha – Life Science
- Likha – Physical Science
- Likha – Mathematics & Computational Science
- Likha – Robotics & Intelligent Machines

Awarding

3:00-4:00 PM

#STEMTOKPERIMENTS

- JHS Category
- SHS Category

4:00 -5:00

Awarding

Siyensikula

Awarding

**DIVISION SCIENCE AND TECHNOLOGY FAIR 2022  
PROGRAM MANAGEMENT TEAM**

DSTF Chairman	Dr. Bianito A Dagatan - SDS
Co- Chairmen	Dr. Faustino N. Toradio - ASDS
	Dr. Danilo G. Gudelusao - ASDS
DSTF Manager	Dr. Carmela M. Restificar – CID Chief
DSTF Coordinators	Dr. Generosa T. Castillo – EPSvr in Science Dr. Felix Galacio – EPSvr in Mathematics
DSTF Members	CD 1 PSDSs
	CD 2 PSDSs
	CD 3 PSDSs
<b>DSTF Technical Working Group</b>	
<b>CD 1</b>	<b>District Science Coordinators</b>
Alburquerque	Ma Teodela Coloma
Antequera	Crespulo M. Hibaya
Baclayon	Ma. Melinda Saligan
Balilihan	Ma. Concepcion Domingop
Calape	Jovelyn O. Patnugot
Catigbian	Anabelle Argea or A. Maglajos
Corella	Merlinda Salang
Cortes	Almira Estaca
Dausi	Rufa Agangang
Loon North	May Flor D. Cantones
Loon South	Amor Luzon Plaza
Maribojoc	Aileen Hazel Fuertes or Maria Catherine Libres
Panglao	Alipia Palaca
Sikatuna	Jane P. Ungab
Tubigon East	Gliceria Huit
Tubigon West	Lucita L. Obguia
<b>CD 2</b>	<b>District Science Coordinators</b>
Bienunido	Democrito Boniel
Buenavista 1	Florencia Balagtas or Julita avelino
Buenavista2	Jennifer Kieth Sobiono
Clarin	Axillum P. Cabido
CPG	Jemelyn S. Cornella
Dagohoy	Alicia Mejoy
Danao	Ma. Dalsy Orcullo
Getafe 1	Roselle C. Mejias
Getafe 2	Robinson Otarra
Inabanga North	Bernard Bayot
Inabanga South	Marisa O. Tirol
Sagbayan	Andresa L. Diaz or Lucilla Alblso
San Isidro	Olimpio Limocon
San Miguel	Carmen Butal



Talibon 1	Antoniete V. Alcazar
Talibon 2	Ma. Myla Oponda
Trinidad 1	Ma. Lolette Avenido
Trinidad 2	Adelaida B. Geagonia
Ubay 1	Carol J. Payot or Grace G. Tabor
Ubay 2	Ma. REchie Bulaga
Ubay 3	Rosario Fe Baluran
<b>CD 3</b>	<b>District Science Coordinators</b>
Alicia	Melquides C. Torrejos
Anda	Lucia G. Makinano
Batuan	Dr. Susan Doria
Bilar	Jessilou H. Monton
Candijay	Estelita S. Cagape
Carmen 1	Nenita O. Viodor
Carmen 2	Leahamor S. Gamba or Chonabelle A. Boyles
Carmen 3	Melona M. Pagaran
Dimiao	Jaime B. Quinga Jr.
Duero	Marilyn A. Llido
Garcvia Hernandez	Cesar Jamero
Guindulman	Eufemia R. Casocot
Jagna	Patricia J. Mandin
Lila	Leonarda E. Maiso
Loay	Judith B. Ompod
Loboc	Gemma Gina Cabahug
Mabini	Genesia Aton or Epifania Guarin
Pilar	Marilou B. Limopag or Sarah L. Nuez
Sevilla	Bernadette Dapar or Shirley Aumentado
Sierra Bullones	Rolly A Rosales or Jefford S. Canas, Ph. D
Valencia	Raquel Visto

### THE SCREENING COMMITTEE

#### #STEMtokperiments (Junior and Senior HS)

Name	School	District
<b>1 Miriam Actub</b>	<b>Sierra Bullones TVHS</b>	<b>Sierra Bullones</b>
2 Lucita C. Tacon	Lila NHS	Lila
3 Lucila Albiso	Canmaya Diot HS	Sagbayan
4 Ronnie Mateo	Guinacot NHS	Guindulman
5 Teresa Limocon	Lourdes NHS	Panglao
6 Maria Juris Casicas	Guinacot NHS	Guindulman

#### SIYENSIKULA

Name	School	District
<b>1 Jane Megan Auza</b>	<b>San Jose NHS</b>	<b>Talibon II</b>
2 Angelyn Andales	Sierra Bullones TVHS	Sierra Bullones
3 Mary Grace Jandayan	Candabong NHS	Anda
4 Josefina Maramba	Lourdes NHS	Panglao
5 Rhea Marie Enad	San Agustin NHS	Sagbayan
6 Epifania Guarin	San Roque NHS	Mabini

**LIKHA – LIFE SCIENCE -INDIVIDUAL & TEAM CATEGORY**

Name	School	District
<b>1 Ethelinda Laguitao</b>	<b>Dimiao Central ES</b>	<b>Dimiao</b>
2 Dr. Gregoria Dabalos	Candijay NHS	Candijay
3 Feliciano Nino	Mayor Catalino Y. Casoyla MHS	Talibon II
4 Dr. Martin Ramis	San Miguel TVS	San Miguel
5 Maricel Vitor	Campao Oriental HS	Getafe 2
6 Dr. Stella Baja	Dusita HS	Sierra Bullones

**LIKHA – PHYSICAL SCIENCE – INDIVIDUAL & TEAM CATEGORY**

Name	School	District
<b>1 Caryl Bianca Dano</b>	<b>San Jose NHS</b>	<b>Talibon II</b>
2 Dr. Lilibeth Laroga	Inabanga HS	Inabanga North
3 Dr. Jefford Canas	Sierra Bullones TVHS	Sierra Bullones
4 Dr. Leonida Casingcasing	Guinsularan NHS	Duero
5 Loreta Garcia	Ubay Science HS	Ubay I
6 Olimpio Limocon	San Isidro NHS	San Isidro

**LIKHA – ROBOTICS – INDIVIDUAL & TEAM**

Name	School	District
<b>1 Engr. Ronald Rey S. Resabal</b>	<b>Tubigon West Central HS</b>	<b>Tubigon West</b>
2 Michael Hormachuelos	Pres CPGTVSTFA	Bien Unido
3 Luciano Bargaso	JAPER MHS	Sagbayan

**LIKHA – COMPUTATIONAL SCIENCE – INDIVIDUAL & TEAM**

Name	School	District
<b>1 Marvin Plaza</b>	<b>Francisco Adlaon HS</b>	<b>Carmen II</b>
2 Dr. Julius Igot	Cogtong NHS	Candijay
3 Dr. Marvin G. Bongato	Dagohoy NHS	Dagohoy
4 Dr. Carol Payot	Tres Reyes ES	Ubay I
5 Dr. Rolando B. Nalzar	Fatima HS	Cortes
6 Dr. Jane Mary Grace Ocon	Tupas HS	Antequera

**SECRETARIAT: Carla Joyce Arnejo and Melinda Sallgan**

**DIVISION GUIDELINES IN THE CONDUCT OF THE DSTF 2022**

All provisions in DepEd Memorandum No. 038, s 2022 entitle “National Science and Technology Fair 2022” shall be enforced and followed in the conduct of the Division Science and Technology Fair (DSTF) 2022. However, to suit the condition applicable in the Division level and to highlight the efforts of the learners and coaches, the following provisions are herein added.

**1. The DSTF 2022 is divided into three rounds:**

- 1.1 District Science and Technology Fair** – This is intended for the screening and review of the submitted entries from the schools. Submission of entries will be on May 25, 2022 from 1:00pm -5:00 PM through this link: [bit.ly/SDOBohoISTF2022](https://bit.ly/SDOBohoISTF2022). The screening and review of entries will be on May 26, 2022 through a virtual platform. This will be managed by the district Science and Technology committee headed by the Public Schools District Supervisor in tandem with the District Science Coordinator/s, DSS's, TWG member (if any) and or science teachers. The committee shall recognize the top 3 winners for each contest

category but **only the first-place winner will proceed to compete in the next level competition. Only the District Science Coordinator can upload the top 1 finalist to the link.**

1.2 **Congressional District Science and Technology Fair** - This will be done virtually by the designated DSTF screening committee per CD. Top three finalists will be chosen per CD but **only the top 1 finalist per contest category will be uploaded to the same link to compete in the SDO level competition.** Uploading will be done by the designated Focal Persons namely: CD 1 – Marvin Plaza; CD 2 – Angeline Andales; CD 3 – Caryll Bianca Dano. The CD level competition is set on the following dates:

- CD 1 – May 30, 2022
- CD 2 – May 31, 2022
- CD 3 – June 1, 2022

1.3 **SDO Level/ Final Round** - This is intended to highlight the Top 3 finalists in all categories via virtual presentation. **Again, only the Top 1 finalist will be uploaded to compete in the regional competition. This will be on June 3, 2022.**

2. All submission must be uploaded in the Google Drive Link: [bit.ly/SDOBoholSTF2022](https://bit.ly/SDOBoholSTF2022). Upon opening, this will lead you to the specific district and CD. The file names must be:

2.1 For Siyensikula \_ SIYENSIKULA \_ DISTRICTNAME \_ VIDEOTITLE

Example: SIYENSIKULA\_TUBIGONWEST\_COVID19

2.2 For Stemtokperiments – STEMOKPERIMENTS\_DISTRICTNAME\_CATEGORY

Example: STEMOKPERIMENTS\_TUBIGONWEST\_JHS  
STEMOKPERIMENTS\_TUBIGONWEST\_SHS

2.3 For Likha – LIKHA\_DISTRICTNAME\_THEME-CATEGORY

For Themes: PS - Physical Science

LS – Life Science

ROB – Robotics

CS – Computational Science

For Category: TEAM

IND

Example: LIKHA\_TUBIGONWEST\_PS\_TEAM

LIKHA\_TUBIGONWEST\_LS\_IND

3. Required Files for upload:

3.1 Siyensikula (**it is highly encouraged that only 1 learner should make the video**)

a. Video entry in mp4 format

b. Word File (Time New Roman; 12 font) of the script with contents: name of Division, School, Proponent, Title, Youtube link, Script in Narrative, References in CMS

c. Notarized Certification (scanned copy)

d. Endorsement (PDF format)

3.2 Likha

a. PDF file of the Full Proposal paper (Follow the Project Proposal Template) Times New Roman; 12 font size

b. Endorsement (scanned copy)

3.3 #STEMTOKPERIMENTS



- a. Video Entry (Tiktok format)
- b. PDF (Times New Roman; 12 font) of the script with contents: name of Division, School, Proponent, Script in Narrative, References in CMS
- c. Notarized Certification (scanned copy) or signed AO
- d. Endorsement (PDF)

3.4 Each district shall prepare a 30-second shout out video in mp4 file to be played in the opening program which features the winners of the District Science and Technology Fair in all categories reciting the shout out/mantra of the division with any upbeat music. This will be submitted on or before May 30, 2022 through this link: <https://bit.ly/3Pi06ki> with a file name format: SHOUTOUTVIDEO\_DISTRICT, example: SHOUTOUTVIDEO\_SIKATUNA

#### 4. District Round

4.1 The submission of entries is open until May 25, 2022 5:00PM for all participating schools and closes after the designated time. Late submission will not be accepted.

4.2 All the files must be uploaded in the correct folder and correct category. Files shall be uploaded by Science District Coordinators accordingly as stated on the Required Files for Upload section of this guidelines. Students are not allowed to upload any files.

4.3 Screening will be done by the Screening committee using the rubrics of NSTF 2022.

4.4 Screening Committee shall convene on May 26, 2022 virtually to finalize the Top 3 finalists per category per district and will be communicated to the TWG per CD.

#### 5. Congressional District and SDO Final Round

5.1 After determining the Top 3 finalists per contest category per district, the Division Science and Technology Screening Committee shall screen the finalists and shall determine the Top 3 finalist per Congressional District. This shall be done on the following dates:

- CD 1 – May 30, 2022
- CD 2 – May 31, 2022
- CD 3 – June 1, 2022

5.2 The SDO/Final Round will be the presentation of the Top 3 Finalists per category per CD on **June 3, 2022.**

5.3 All phases or rounds of the DSTF shall be done through online platform.

5.4. The screening committee for each level of the DSTF competitions, from the district to the Division, shall recognize the top three (3) winners but only the **first-place winner or Top 1** will be forwarded to compete in the next higher-level competition.

**5.5 The First Place Winners per category shall represent the Division in the Regional Science and Technology Fair 2022.**

5.5 During the presentation, the learner shall:

For Likha:

- a. Introduce herself/himself or the team



- b. Present the PowerPoint slide (in 5 minutes, at least 18 font size with white or black background) containing:
  - b.1 Title and Names of the Proponents
  - b.2 Bullet form of the Rationale
  - b.3 Problems/Questions
  - b.4 Methods (bullet form)
  - b.5 Expected Output/Impact
- 5.6 For Siyensikula and STEM TOKPERIMENTS, all videos will be controlled and played by the Organizer/screening committee.
- 5.7 A timer is set in all contest presentation and interpolation.
- 5.8 Expenses covering the transportation, communication and meals of the participants shall be chargeable to school MOOE or local funds subject to accounting rules and regulations.
- 6. Health Protocols
  - 6.1 All participants must be fully vaccinated. Or at least a negative antigen test result for non-vaccinated is required to participate.
  - 6.2 Temperature check and sanitizing shall be done on the venue.
  - 6.3 All participants shall wear face masks at all times.
  - 6.4 All participants must observe the minimum physical distancing and should only occupy in the designated chair/area.
- 7. Awarding of Winners
  - 7.1 All top three winners in all levels of competitions shall be awarded virtually right after the judging of all contest category entries.
- 8. Mentoring
  - 8.1 All first-place winners shall go through mentoring/debriefing with the judges right after each event /category.
- 9. **Number 1 judges are chairmen of the board of judges and are responsible for the collation of results.**
- 10. **LIKHA** Timeline
  - 10.1- **May 26, 2022** - Deadline of Submission of **All Entries** to the link by the district science coordinators.
  - 10.2 -**May 27, 2022**- Prejudging of the submitted entries
  - 10.3- **CD1**
    - May 27, 2022**-Announcement of top 3 entries of Likha to proceed to the CD1 competition through group chat.
    - May 30, 2022**-Final CD 1 Level Competition (Siyensikula, Likha #STEMtokperiments)
    - Final judging of the top 3 best entries in Likha
  - 10.4 - **CD2**

-**May 30, 2022**-Announcement of top 3 entries of Likha to proceed to the CD2 competition through group chat

-**May 31, 2022**-Final CD 2 Level Competition (Siyensikula, Likha, #STEMtokperiments)

- Final judging of the top 3 best entries in Likha

**10. 5- CD3**

-**May 31, 2022**-Announcement of top 3 entries of Likha to proceed to the CD3 finals through group chat

-**June 1, 2022**-Final CD 3 Level Competition (Siyensikula, Likha, #STEMtokperiments)

- Final judging of the top 3 best entries in Likha

**Division Level – June 3, 2022**

Prepared by:

  
**GENEROSA T. CASTILLO Ph D**  
EPS Science

Noted by:

  
**CARMELA M. RESTIFICAR Ph D**

Approved:

  
**BIANITO A. DAGATAN Ed D CESO V**  
Schools Division Superintenden



Republic of the Philippines  
**Department of Education**  
REGION VII – CENTRAL VISAYAS

Office of the Regional Director

REGIONAL MEMORANDUM

No. **0377**, s. 2022

MAY 04 2022

**REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022**

To: Schools Division Superintendents

1. Relative to Deped Memorandum No. 038 s. 2022, this Office, through the Curriculum and Learning Management Division (CLMD), will conduct the most anticipated event – The Regional Science and Technology Fair 2022 on the following dates:

1.1 Preliminary Round – This is intended for the screening and review of the submitted entries in the 20 SDOs. Submission of the entries will be on June 13, 2022 from 1:00-5:00 pm via Google drive link that will be provided. The screening and review of entries will be on June 14-16, 2022 through a virtual platform. The list of Top 10 Finalists will be released through a Regional Memorandum on June 17, 2022.

1.2 Final Round – This is intended to highlight the Top 10 finalists in all categories in a Virtual presentation. This will be on June 27-29, 2022 via online platform.

2. This year's RSTF aims to empower the youth and cultivate innovation, and creativity amid the changing world. The RSTF 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.

3. The RSTF 2022 will adopt the following NSTF 2022 banner contests and formats:

3.1 **Likha** (A full research proposal competition in Life Science, Physical, Robotics and Computational Science).

3.2 **Siyensikula** (An original video creation competition).

3.3 **#STEMtokperiments** (A tiktok science experiment competition).

4. Participants in the Preliminary Round are the first place winners/endorsed representatives of the 20 Schools Division Offices. However, the participants in the Final Round are the Top 10 finalists with the Advisers and Education Program Supervisors in Science, whose entries are shortlisted by the Regional Screening Committee. Participation in the RSTF 2022 is strictly voluntary and shall be done in virtual modality. Announcement of the Top 10 finalists will be released through a Regional Memorandum.



**Address:** Doña M. Gaisano St., Sudlon, Lahug, Cebu City

**Telephone Nos.:** (032) 231-1433; (032) 414-7399

**Email Address:** region7@deped.gov.ph



5. Enclosed are the following for reference:

- 5.1 Enclosure 1 – Program Schedule Matrix for the Final Round
- 5.2 Enclosure 2 - Management Team
- 5.3 Enclosure 2 – Regional Guidelines in the Conduct of RSTF 2022
- 5.4 Enclosure 3 – DepEd Memorandum No. 038 s. 2022 (NSTF)  
NSTF Contest Guidelines and Mechanics  
NSTF Contest Criteria  
NSTF Contest Forms

6. A separate Awarding Ceremony will be held on July 4, 2022. The Top 5 Winners, coaches and EPS Science in each category are invited to join the event at the Ecotech Center, Sudlon, Lahug, Cebu City. A separate memorandum will be released announcing the winners and the details of the awarding ceremony.

7. Expenses relative to the conduct of the RSTF 2022 including honoraria of the judges and screening committee; meals in the awarding ceremony shall be charged against Regional MOOE subject to the usual government accounting and auditing rules and regulations.

8. Each division office is requested to prepare a 30-second shout-out video in mp4 file to be played in the opening program which features the winners of the DSTF in all categories reciting the shout out/mantra of the division with any upbeat music. This will be submitted on or before June 13, 2022 through the Google drive link that will be provided with a file name: Shoutoutvideo\_Division.

9. For more inquiries, kindly contact Dr. Bryant C. Acar, R7 EPS in Science at 09430166769 or [bryant.acar@deped.gov.ph](mailto:bryant.acar@deped.gov.ph) and Mr. Cesar A. Restauro Jr., R7 EPS Math at 09175656569 or [cesar.restauro@deped.gov.ph](mailto:cesar.restauro@deped.gov.ph).

10. Immediate dissemination of, and compliance with this Memorandum is directed.

  
**SALUSTIANO T. JIMENEZ EdD, JD, CESO V**  
Director IV  
Regional Director

STJ/CAE/MJCD/bca



**Address:** Doña M. Gaisano St., Sudlon, Lahug, Cebu City  
**Telephone Nos.:** (032) 231-1433; (032) 414-7399  
**Email Address:** [region7@deped.gov.ph](mailto:region7@deped.gov.ph)

**REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022**

**PROGRAM MANAGEMENT TEAM**

RSTF Chairman	Dr. SALUSTIANO T. JIMENEZ Regional Director
RSTF Co-Chairman	Dr. CRISTITO A. ECO Assistant Regional Director
RSTF Manager	Dr. Maria Jesusa C. Despojo Chief ES, CLMD
RSTF Coordinators	Dr. Bryant C. Acar RO7 EPS Science  Mr. Cesar A. Restauro Jr. RO7 EPS Math
<b>RSTF Technical Working Group</b>	
Rey Pono	RO7
Mike John Saberon	RO7
Johnnyline Jagdon	RO7
Bais City	Salvacion A. Adana
Bayawan City	Adonis S. Rivera
Bohol	GENEROSA T. CASTILLO
Canlaon City	Lester C. Pabalinas
Carcar City	MERIAM T. ABADILLA
Cebu City	Raylene S. Manawatao
Cebu Province	JUVIMAR E. MONTOLO
City of Bogu	Charmaine Vera A. Ramos
City of Naga	Carmencita B. Lopez
Danao City	Marlyn V. Canales
Dumaguete City	ANTONIETA P. VENDIOLA
Guihulngan City	JOSE F. BELONO, JR.
Lapu-Lapu City	JENNIFER S. MIRASOL
Mandaue City Division	Rufino T. Tudlasan Jr.
Negros Oriental	Arnold R. Jungco
Siquijor	Nicarter Baroy Lomocso
Tagbilaran City	
Talisay City	Cirilo C. Gastanes, Jr.
Tanjay City	Elsie T. Seneris
Toledo City	Geraldo D. Laña



**REGIONAL SCIENCE AND TECHNOLOGY FAIR 2022**

**FINAL ROUND – PROGRAM MATRIX**

June 27-29 2022

**Virtual Platform**

Time	Day 1	Day 2	Day 3
	June 27, 2022	June 28, 2022	June 29, 2022
7:00-7:45 am	Registration		
8:00-10:00 am	Opening Program Sponsor's Time Preliminaries Messages SDO Shout Out Contest Mechanics	Research Contest Likha- Physical Science – Team Category  Awarding	Research Contest Likha- Math/ Computational Science – Team Category  Awarding
10:00-12:00 noon	Research Contest Likha- Life Science – Team Category  Awarding	Research Contest Likha- Physical Science – Individual Category  Awarding	Research Contest Likha- Math/ Computational Science – Individual Category  Awarding
12:01-12:59 pm	Lunch Break		
1:00-3:00 pm	Research Contest Likha- Life Science – Individual Category  Awarding	Research Contest Likha- Robotics – Team Category  Awarding	#STEMTOKPERIMENTS JHS Category  Awarding
3:00-5:00 pm	Siyensikula Category  Awarding	Research Contest Likha- Robotics – Individual Category  Awarding	#STEMTOKPERIMENTS SHS Category  Awarding



**Address:** Doña M. Gaisano St., Sudlon, Lahug, Cebu City  
**Telephone Nos.:** (032) 231-1433; (032) 414-7399  
**Email Address:** region7@deped.gov.ph





Republic of the Philippines  
**Department of Education**  
REGION VII – CENTRAL VISAYAS

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**Curriculum and Learning Management Division**

Enclosure No. 3 to Regional Memorandum No. \_\_\_\_\_ s. 2022

**REGIONAL GUIDELINES IN THE CONDUCT OF RSTF 2022**

All provisions in DepEd Memorandum No. 038, s. 2022 entitled "National Science and Technology Fair 2022" shall be enforced and followed in the conduct of the Regional Science and Technology Fair (RSTF) 2022. However, to suit the condition applicable in the Regional level and to highlight the efforts of the learners and coaches, the following provisions are herein added:

**1. The RSTF 2022 will be divided into 2 rounds:**

- 1.1 Preliminary Round – This is intended for the screening and review of the submitted entries in the 20 SDOs. Submission of the entries will be on June 13, 2022 on or before 12:00 noon via Google drive link that will be provided. The screening and review of entries will be June 14-16, 2022. This will be done asynchronously by the designated RSTF Screening Committee. The list of Top 10 Finalists will be released through a Regional Memorandum on June 17, 2022.
- 1.2 The Final Round – This is intended to highlight the Top 10 finalists in all categories in a Virtual presentation. This will be on June 27-29, 2022 via Zoom.

**2. All submissions must be uploaded in the Google Drive Link to the specific Folder Contest. The file names must be:**

- 2.1 for Siyensikula  
SIYENSIKULA\_SDO\_VideoTitle  
Example: SIYENSIKULA\_CEBUCITY\_KIDLAT
- 2.2 for Likha (Full Proposal Research Contest)  
LIKHA\_SDO\_CATEGORYINITIAL-SUBCATEGORYINITIAL  
Example: LIKHA\_DANAOCITY\_LS-I
- 2.3 for STEMtokperiments  
#STEMTOKPERIMENTS\_SDO\_CATEGORYINITIAL  
Example: #STEMTOKPERIMENTS\_DUMAGUETECITY\_JHS

**3. Required Files for upload:**

- 3.1 Siyensikula (*it is highly encouraged that only 1 learner should make the video*)
  - a. Video entry
  - b. Word File (Times Roman; 12 font) of the script with contents: name of Division, School, Proponent, Title, Youtube link, Script in Narrative, References in CMS
  - c. Notarized Certification (scanned copy)
  - d. Endorsement (PDF)
- 3.2 Likha
  - a. PDF file of the Full Proposal paper (Follow the Project Proposal Template) Times Roman; 12 font size
  - b. Endorsement (scanned copy)

### 3.3 #STEMTOKPERIMENTS

- a. Video entry (Tiktok format)
- e. PDF (Times Roman; 12 font) of the script with contents: name of Division, School, Proponent, Script in Narrative, References in CMS
- f. Notarized Certification (scanned copy) or signed AO
- g. Endorsement (PDF)

3.4 Each division office is requested to prepare a 30-second shout out video in mp4 file to be played in the opening program which features the winners of the DSTF in all categories reciting the shout out/mantra of the division with any upbeat music. This will be submitted on or before June 13, 2022 through the Google drive link that will be provided with a file name: Shoutoutvideo\_Division.

## 4. Preliminary Round

- 4.1 The submission is open on June 13 from 1:00 pm-5:00 pm only and closes after the designated time. Late submission will not be accepted.
- 4.2 All files must be uploaded in the correct folder and correct category. Files shall be uploaded by the Education Program Supervisor per SDO with the assistance of the SDO ICT in-charge. Coaches nor students are not allowed to upload any files.
- 4.3 Screening will commence on June 14 and ends on June 16, 2022 by the designated Screening Committee using the rubrics of NSTF 2022.
- 4.4 Identity of the screening committee shall be held confidential and results are final and irrevocable. Screening committee will be composed of EPS Science/Math and experts and researchers from HEIs.
- 4.5 The Screening Committee shall convene on June 16, 2022 virtually to finalize the Top 10 finalists per category.
- 4.6 The finalists will be announced on June 17, 2022 through a Regional Memorandum.

## 5. Final Round (RSTF Congress)

- 5.1 The Final round will be the Research Congress and Presentation of the Top 10 Finalists per category on June 27-29, 2022.
- 5.2 This will be an online session with the Finalists joining virtually via zoom and the event shall also be live in FB Channel.
- 5.3 Only the Top 10 Finalists per category, coaches and EPS Science are allowed to join and be present in the online presentation on a particular time slot per category.
- 5.4 The Top 10 Finalists will have to go through the final round for the presentation and Q & A for ranking purposes and select the Top 5 and First Place winners to represent the Region in the NSTF 2022.
- 5.5 The participation of RSTF 2022 is strictly voluntary. Withdrawal from joining the event should be expressed in a formal communication. Hence, the finalist is forfeited from any award or recognition.
- 5.6 In case of withdrawal, only remaining finalists will compete and no replacement from other SDOs shall be made.
- 5.7 The schedule will be as follows:

Date	Category	No of Pax	Time
June 27, 2022	OPENING PROGRAM	3 Guests from Vivant	Sponsor's Time and
	Likha - Life Science - Team	30 Learners 10 Coaches 10 SDO EPS 3 Judges	Opening 8:00-10:00 am Contest 10-12 noon

			5 RO7	
		Likha - Life Science - Individual	10 Learners 10 Coaches 10 SDO EPS	1:00-3:00 pm
		Siyensikula	10 Learners 10 Coaches 10 SDO EPS	3:01-6:00 pm
		<i>Total Pax Day 1</i>	121	
June 2022	28,	Likha - Physical Science - Team	3 Guests from Vivant 30 Learners 10 Coaches 10 SDO EPS 3 Judges 5 RO7	8:00-10:00 am
		Likha - Physical Science - Individual	10 Learners 10 Coaches 10 SDO EPS	10:00-12:00 noon
		Likha - Robotics - Team	30 Learners 10 Coaches 10 SDO EPS	1:00-3:00 pm
		Likha - Robotics - Individual	10 Learners 10 Coaches 10 SDO EPS	3:00-6:00 pm
		<i>Total Pax Day 2</i>	171	
June 2022	29,	Likha - Math/ Computational Science - Team	3 Guests from Vivant 30 Learners 10 Coaches 10 SDO EPS 3 Judges 5 RO7	8:00-10:00 am
		Likha - Math/ Computational Science - Individual	10 Learners 10 Coaches 10 SDO EPS	10:00-12:00 noon
		STEMTOKPERIMENTS JHS	10 Learners 10 Coaches 10 SDO EPS	1:00-2:00 pm
		STEMTOKPERIMENTS SHS	10 Learners 10 Coaches 10 SDO EPS	2:00-3:00 pm
				Closing Program - 3:01-4:00 pm
		<i>Total Pax Day 3</i>	151	

- 5.8 To avoid crowding in the virtual meeting, only participants on the designated time shall join the event with alternating AM and PM Batches. AM batch must be at the virtual meeting at 7:30 am and must leave the session after the morning event. PM batch must be in the virtual meeting at 12:30 pm and must leave after the afternoon event.
- 5.9 For Likha categories, only official finalists are allowed to present and must be in executive attire.
- 5.10 Finalists must secure a strong wifi connection and a headset. All presenters must open their camera during the presentation and Q and A.
- 5.11 The presenter/s should use their own laptop and is/are responsible of managing the control during the presentation.
- 5.12 During the presentation, the learner shall:
- a. Introduce herself/himself or the team
  - b. Present the a Powerpoint slide (in 5 minutes, at least 18 font size with white or black background) containing:
    - b.1 Title and Names of the Proponents
    - b.2 Bullet form of the Rationale
    - b.3 Problems/Questions



b.4 Methods (bullet form)

b.5 Expected Output/Impact

c. The Question and Answer from the judges will be 5 minutes.

5.12 For Siyensikula and STEM TOKPERIMENTS, all videos will be controlled and played by the organizer and learner will standby for further Questions by the judges.

5.13 For Siyensikula, a peer-to-peer review shall be conducted separately on a designated date with the organizer to cast a vote for the Peer's Choice Award.

5.14 A timer is set in all contest presentation and interpolation. An alarm will be sounded to begin the presentation and will be sounded again at the end of each time allotment.

5.15 Expenses covering the transportation, communication and meals of the finalists, coaches, EPS shall be chargeable to School or Division MOOE or local funds subject to accounting rules and regulations.

#### **6. Health protocols**

6.1 All participants must be fully vaccinated to participate in the Final Round. Or at least a negative antigen test result for non-vaccinated is required to participate.

6.2 If the Finalists are housed in the school, temperature check and sanitizing should be done before going to the venue.

6.3 All participants must wear a mask at all times.

6.4 All participants must bring an alcohol and should disinfect as often as possible.

6.5 All participants must observe the minimum physical distancing and should only occupy in the designated chair/area.

6.6 Learners must bring and present a parental consent during the contest.

#### **7. Awarding of Winners**

7.1 Awarding of Winners will be set on July 4, 2022 at the Ecotech Center, Dining Hall.

7.2 Only the Top 5 winners, coaches and EPS Sciences in each category are allowed to join the awarding.

#### **8. Mentoring**

8.1 All First place winners shall go through mentoring/debriefing with the judges right after each event/category.

8.2 First place winners shall be mentored continuously by the R7 EPS Science/Math. This shall be done through physical or virtual sessions.

8.3 Mentoring shall include but not limited to: format; presentation, submission, communication, personality, NSTF guidelines and standards.

#### **9. Sponsorship**

9.1 The event's sponsor is Vivant Foundation, Inc.

9.2 The Top 5 Finalists are awarded by Vivant with the following:

9.2.1 Trophy

9.2.2 Cash prizes

9.2.3 First Placers will be given a Cash Grant (Science Equipment)

Prepared by



**DR. BRYANT C. ACAR**  
R7 EPS Science

Noted by:



**DR. JESUSA C. DESPOJO**  
Chief ES, CLMD

Approved by:

**DR. SALUSTIANO T. JIMENEZ**  
Regional Director



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</i> Mechanics
Enclosure No. 2	<i>Siyensikula</i> Criteria/Peer to Peer Evaluation Tool
Enclosure No. 3	<i>Siyensikula</i> Waiver and Certification
Enclosure No. 4	<i>Likha</i> - Mechanics and Criteria
Enclosure No. 5	<i>Likha</i> - Rubric Evaluation Tool (Screening)
Enclosure No. 6	<i>Likha</i> - Rubric Evaluation Tool (Final Judging)
Enclosure No. 7	<i>Likha</i> - Project Proposal Template
Enclosure No. 8	STEMtokperiments - Mechanics and Criteria
Enclosure No. 9	Timeline NSTF 2022

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](mailto:nstf@deped.gov.ph) or 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. 053, s. 2021  
 To be indicated in the Perpetual Index  
 under the following subjects:



CELEBRATIONS AND FESTIVALS	SCHOOLS
CONTESTS	STUDENTS
LEARNING AREA, SCIENCE	



### 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 ROMM 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.	Criteria	Points				
		0	1	2	3	4
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 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:

<b>Criteria</b>	<b>Weight</b>
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"> <li>1. Does the project show originality and innovation in terms of               <ol style="list-style-type: none"> <li>a. proposed approach in solving the problem?</li> <li>b. research design?</li> <li>c. research methodology?</li> <li>d. construction or design of a new or improved equipment?</li> </ol> </li> <li>2. Did the research project considered an issue/problem/gap that previous research projects did not addressed?</li> <li>3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?</li> </ol>	
<p>2. a. Technical Scientific Merit (25)</p> <p>(If an engineering project, please see 2b. Engineering Goals.)</p> <ol style="list-style-type: none"> <li>1. Is the problem stated explicitly and concisely?</li> <li>2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)?</li> <li>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?</li> <li>4. Does the finalist team recognize the projects' limitations?</li> <li>5. Does the analysis of background information with depth?</li> </ol> <p>b. Engineering Goals</p> <ol style="list-style-type: none"> <li>1. Does the project have a clear objective?</li> <li>2. Is the objective relevant to the potential user's needs?</li> <li>3. Is the solution "workable", Acceptable to the potential user "Economically feasible"?</li> <li>4. Could the solution be utilized successfully in design or construction of an end product?</li> <li>5. Is the solution a significant improvement over previous alternatives or application?</li> <li>6. Will the solution be tested for performances under standardized protocols?</li> </ol>	
<p>3. Community Connection and Impact (25)</p> <ol style="list-style-type: none"> <li>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)</li> <li>2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society?</li> <li>3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?</li> </ol>	
<p>4. Excellence of Method (25)</p> <ol style="list-style-type: none"> <li>1. Was the research methods supported by relevant and credible related literatures?</li> <li>2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives?</li> <li>3. Are the variables clearly identified and defined?</li> <li>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?</li> <li>5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed?</li> <li>6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected?</li> <li>7. Does the project recognize ethical or safety issues and has adequate plans to manage risks?</li> <li>8. Does the project include appropriate protocols/procedures for waste disposal and data analysis?</li> <li>9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?</li> </ol>	
<p>TOTAL</p> <p>Signature over printed name of the evaluator</p>	





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

CRITERIA	POINTS
<p>1. Originality and Innovation (20)</p> <ol style="list-style-type: none"> <li>1. Does the project show originality and innovation in terms of                             <ol style="list-style-type: none"> <li>a. proposed approach in solving the problem?</li> <li>b. research design?</li> <li>c. research methodology?</li> <li>d. construction or design of a new or improved equipment?</li> </ol> </li> <li>2. Did the research project considered an issue/problem/gap that previous research projects did not address?</li> <li>3. Does the project transforms an idea or solution into a creative, unique and major improvement in the current technology/process/product/technique/design?</li> </ol>	
<p>2. Technical Scientific Merit (20)</p> <p>(If an engineering project, please see 2b Engineering Goals)</p> <ol style="list-style-type: none"> <li>1. Is the problem stated explicitly and concisely?</li> <li>2. Was the approach to solve the problem supported by relevant, critical and logical related literatures (scientific basis/theoretical framework/mathematical theory)?</li> <li>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?</li> <li>4. Does the finalist team recognize the projects' limitations?</li> <li>5. Does the analysis of background information with depth?</li> </ol> <p>b. Engineering Goals</p> <ol style="list-style-type: none"> <li>1. Does the project have a clear objective?</li> <li>2. Is the objective relevant to the potential user's needs?</li> <li>3. Is the solution workable? Acceptable to the potential user? Economically feasible?</li> <li>4. Could the solution be utilized successfully in design or construction of an end product?</li> <li>5. Is the solution a significant improvement over previous alternatives or application?</li> <li>6. Will the solution be tested for performances under standardized protocols?</li> </ol>	
<p>3. Community Connection and Impact (20)</p> <ol style="list-style-type: none"> <li>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)</li> <li>2. Did the student clearly defined the extent on how the research project can potentially benefit and meet the needs of the society?</li> <li>3. Does the proposed solution gives value, effectiveness and efficiency to their target sector?</li> </ol>	
<p>4. Excellence of Method (20)</p> <ol style="list-style-type: none"> <li>1. Was the research methods supported by relevant and credible related literatures?</li> <li>2. Was there an efficient, thorough, valid and reliable procedural plan to attain the research objectives?</li> <li>3. Are the variables clearly identified and defined?</li> <li>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?</li> <li>5. Does the critical elements (e. g. treatments, techniques, protocols, replications, trials) of the research design and methods appropriately developed?</li> <li>6. Does the project specifically and clearly explained what and how quantitative and qualitative data will be collected?</li> <li>7. Does the project recognize ethical or safety issues and has adequate plans to manage risks?</li> <li>8. Does the project include appropriate protocols/procedures for waste disposal and data analysis?</li> <li>9. Is the proposed timeline/workplan appropriate, achievable, practical and feasible?</li> </ol>	
<p>5. Presentation (20)</p> <ol style="list-style-type: none"> <li>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</li> <li>2. Does the written material reflect the finalist's or team's understanding of the research proposal?</li> <li>3. Are the important phases of the project presented in an orderly manner?</li> <li>4. How clearly is the rationale presented?</li> <li>5. How clearly are the research methods presented?</li> <li>6. Did the student used presentation resources as guide?</li> <li>7. Is the presentation professional with the use of colors, fonts and graphics?</li> <li>8. Did the student speaks clearly, maintains eye contact and uses appropriate scientific language?</li> <li>9. Did the student provided clear, detailed and accurate answers to the questions given?</li> </ol>	
<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**

- Physical Science
- Life Science
- Robotics and Intelligent Machines
- Mathematics and Computational Sciences

**(4) THEME**

- Food Safety
- Water Conservation
- Renewable Energy
- Cyber Security
- Traffic / Road Congestion
- Health
- Disaster Mitigation
- Agriculture and Environment
- Others (please specify) \_\_\_\_\_

**(3)**

- Individual
- 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 1080x1920.
  - 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.

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%
Total	100%



(Enclosure No.9 to DepEd Memorandum No. 038, s. 2022)



**NATIONAL SCIENCE AND TECHNOLOGY FAIR TIMELINE**

<b>Activity</b>	<b>Date/Schedule</b>
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