18 Feb 2026

**DIVISION MEMORANDUM**
No. 099 , s. 2026

# FINALISTS OF THE NATIONAL SCIENCE AND TECHNOLOGY FAIR S.Y. 2025-2026

To: OIC-Assistant Schools Division Superintendent
OIC-CID Chief Education Supervisor
OIC-SGOD Chief Education Supervisor
Education Program Supervisors
School Heads/OICs
All Others Concerned

1. Relative to DepEd Memorandum No. 006, s. 2026 (National Science and Technology Fair for SY 2025-2026) and Memorandum DM-OULS-2026-045 from the Office of the Undersecretary for Learning Systems, this Office warmly congratulates one of the finalists of the National Science and Technology Fair (NSTF) SY 2025-2026 from SDO Imus City.

| Category | Research Title | School | Proponent | Adviser | Principal |
|---|---|---|---|---|---|
| Physical Science – Individual Category | EcoCell: Utilization of Coconut (*Cocos nucifera*) Shell-derived Activated Carbon (SCdAC) and Recycled Brass Wire (RBW) as Potential Electrodes for Galvanic Cell | Gen. Juan Castañeda Senior High School | Aj Maye A. Miralles | Mark Philip A. Echon | Ditas V. Flores |

2. The NSTF is scheduled on March 10-13, 2026 in the National Capital Region. An official advisory will be issued to confirm the specific venue.

3. Enclosed is the list of official delegates from SDO Imus City.

4. The delegates' allowances for food provision, transportation, and board and lodging of the participants shall be charged against the Special Education Fund (SEF), subject to standard accounting and auditing rules and regulations.

5. For queries and clarifications, contact Ms. Rochelle S. Balete, Education Program Supervisor in Science, at (046) 4198450 loc. 221.

6. For guidance and immediate dissemination.

**HOMER N. MENDOZA**
Assistant Schools Division Superintendent
Officer-In-Charge
Office of the Schools Division Superintendent

Encl.: As stated
Reference: As stated

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

CONTEST
LEARNING AREA, SCIENCE

*cid/rsb/02/11/2026*

*Enclosure No. 1 to Division Memorandum No. 099, s. 2026*

**NATIONAL SCIENCE AND TECHNOLOGY FAIR**
**SY 2025-2026**

**SDO IMUS CITY**
**LIST OF DELEGATES/PARTICIPANTS**

| NAME | DESIGNATION | SCHOOL/OFFICE |
|---|---|---|
| 1. Homer N. Mendoza | OIC-SDS | OSDS |
| 2. Glenda DS. Catadman | ASDS | OSDS |
| 3. Marciano V. Valles | CID Chief | SDO-CID |
| 4. Rochelle S. Balete | EPS | SDO-CID |
| 5. Maria Luisa F. Candelaria | EPS | SDO-CID |
| 6. Ditas V. Flores | OIC-School Head | GJCSHS |
| 7. Mark Philip A. Echon | SST I/Coach | GJCSHS |
| 8. Aj Maye A. Miralles | Learner-Participant | GJCSHS |

Republic of the Philippines
Department of Education

FEB 1 0 2026

DepEd MEMORANDUM
No. 006 , s. 2026

**NATIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL YEAR 2025–2026**

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
Attached Agencies
All Others Concerned

1. The Department of Education (DepEd), pursuant to DepEd Order (DO) No. 010, s. 2024 titled Policy Guidelines on the Implementation of the MATATAG Curriculum, recognizes the National Science and Technology Fair (NSTF) as part of its co-curricular programs. The NSTF serves as a platform for showcasing scientific inquiry and innovative thinking. Aligned with the Department's vision of enabling students to realize their full potential, the activity continues to empower learners through meaningful engagement in science and technology. This year, the NSTF invites students to explore a wide range of research in sustainability, environmental innovation, public health, and digital breakthroughs. Guided by the theme, Harnessing the Unknown: Powering the Future Through Science and Innovation, the event underscores the role of research in addressing today's most pressing challenges and their implications for the future. It encourages youth to envision bold, research-driven solutions to build a resilient, equitable, and thriving future for all.

2. DepEd announces the conduct of the NSTF for the school year 2025–2026, scheduled from **March 10 to 13, 2026** (exclusive of travel time), in the National Capital Region. Delegates are expected to arrive at the venue on March 10, 2026. The first meal will be the AM snack on **March 10, 2026**, and the last meal will be lunch on **March 13, 2026**.

3. Official endorsement of the participants, including the finalists and other delegates, signed by the regional director (RD), is required to be presented during registration.

4. The NSTF aims to

   a. develop and strengthen the Science, Technology, Engineering, and Mathematics (STEM) skills of learners through the conduct of research projects that address local, national, and/or global issues, concerns, and problems;

b. provide an avenue for high school learners to communicate research findings and showcase their investigations and innovations to the STEM community and the public;
c. foster a culture of creativity and innovation among the youth;
d. promote STEM awareness and interest of the learners, teachers, and the public;
e. provide an opportunity to establish research networks and collaborations among students, teachers, researchers, entrepreneurs, scientists, higher education and research institutions, government agencies/units, industries, and communities; and
f. identify the most creative and innovative student researchers who shall be the recipients of various awards, as well as the members of the Philippine team who shall participate in international STEM research and innovation fairs.

5. The NSTF shall include the following activities. Likewise, the STF from school to the regional level shall conduct similar activities in preparation for NSTF:

a. ***Tuklas*** - a STEM research competition with four categories: (1) Life Science, (2) Physical Science, (3) Robotics and Intelligent Machines, and (4) Mathematics and Computational Science—that provides junior and senior high school learners opportunities to showcase their research projects based on their field of interest and/or real-world problems, issues and concerns.

b. **STEM Innovation Expo** - a STEM Innovation competition that aims to recognize the most creative and market-viable project addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture, and environment.

c. **STEM Academy** - a conference designed to provide the participants with learning opportunities and experiences through various talks promoting innovation, creativity, and excellence in the fields of STEM.

d. ***Agham Bayanihan*** - a public community exhibition of the partners in STEM Research and Innovation showcasing their latest innovative products, technologies, and services offered to the different sectors of the community.

e. **On-the-Spot Poster Making Contest** - a two-hour competition that empowers learners to express their ideas visually and engage with real-world problems. This contest encourages critical thinking, creativity, and innovation.

f. **Regional Shoutout** - a short public expression of greeting, celebration, and acknowledgment by each region for their NSTF participants during the actual event after their 30-second video presentation.

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6. The official participants of the NSTF shall be limited to the **Rank 1 Regional Winners** in each individual and team category, as approved by the National Screening Review Committee (SRC).

7. Each region may send a maximum of 27 official delegates to the NSTF. This delegation includes up to 20 student participants, comprising one individual and one team of three members for each of the five competition categories: Life Science, Physical Science, Robotics and Intelligent Machines, Mathematics and Computational Science, and STEM Innovation Expo. In addition, up to seven official participants may join (with a maximum of two allowable observers and one adult companion for every four learners). These may include the RD, assistant RD, chief education program supervisor, regional education program supervisor for Science or Mathematics, division Mathematics/Science supervisors, and research advisers. Please note that slots allocated to disqualified entries shall not be reassigned.

8. **All schools,** including those under the Philippine Science High School System, are invited to participate in the Division Science and Technology Fair (DSTF) to qualify for the Regional Science and Technology Fair (RSTF) and the NSTF.

9. A maximum of a two-minute video explainer of the research project shall be submitted together with the soft copy of the manuscript of the official entry before the conduct of the National Scientific Review Committee Meeting on the date to be announced in a separate issuance.

10. Focal persons, division Mathematics and Science supervisors under the Curriculum Implementation division, and regional Mathematics and Science supervisors under the Curriculum and Learning Management division shall lead the conduct of the STF at the school, division, and regional levels, respectively. Expenses incurred during the STF, from the school to the regional level, shall be charged to local funds, subject to the usual accounting and auditing rules and standards.

11. Compliance with DO 9, s. 2005, Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith, and DO 003, s. 2023, An Order Allowing the Conduct of In-Person Activities in School, shall be observed at all times.

12. The following enclosures shall guide the regional offices, schools division offices, and schools in implementing and organizing STF:

| | |
|---|---|
| Enclosure No. 1 | Guidelines on the National Science and Technology Fair |
| Enclosure No. 2 | Schematic Diagram of the Flow of STF Activities |
| Enclosure No. 3 | *Tuklas* Research Paper Format |
| Enclosure No. 4 | *Tuklas* Project Poster Display Format and Safety Guidelines<br>Sample Abstracts |
| Enclosure No. 5 | STEM Innovation Expo Paper Format |
| Enclosure No. 6 | Checkpoints for SRC Review |
| Enclosure No. 7 | Learners Media Release Consent Form |
| Enclosure No. 8 | Non-Disclosure Agreement Form |
| Enclosure No. 9 | Report of the Conduct of the STF List of Forms and Documents Required for Submission in all Levels of Competition |
| Enclosure No. 10 | Official List of Participants Template |

| | |
|---|---|
| Enclosure No. 11 | Project Labeling and Coding |
| Enclosure No. 12 | Board of Judges Terms and Conditions Form |
| Enclosure No. 13 | Scientific Review Committee Terms and Conditions Form |
| Enclosure No. 14 | Review and Recommendation Report |
| Enclosure No. 15 | Project Evaluation Form |
| Enclosure No. 16 | Board of Judges Individual Score Sheet |
| Enclosure No. 17 | Board of Judges Consolidated Score Sheet |
| Enclosure No. 18 | STEM Innovation Expo Evaluation Form |
| Enclosure No. 19 | Project Poster Display Evaluation Form |
| Enclosure No. 20 | On-the-Spot Poster Making Contest Evaluation Form |
| Enclosure No. 21 | Calendar of Important STF Activities and Requirements |

13. The Regional Math and Science Supervisors are requested to submit to the Bureau of Curriculum Development the complete reports on the conduct of the RSTF using the format provided in **Enclosures Nos. 9 and 11** on or before March 9, 2026, through the email address nstf@deped.gov.ph. Failure to submit the complete report on time shall **disqualify** the region from participating in the National Fair.

14. The winners in all contest categories shall be determined based on the sum of rankings given by all three members of the Board of Judges (BOJ), in accordance with the criteria outlined in **Enclosures Nos. 15, 18, and 19**. The participant or team with the lowest total ranking across the three judges will be declared the winner. In the event of a tie, the BOJ assigned to the category shall deliberate to break it. Moreover, the BOJ's decision is final and irrevocable upon announcement.

15. Travel and incidental expenses incurred by participants or official delegates from each region shall be charged to local funds or other available sources. Meanwhile, all expenses of DepEd Central Office (CO) personnel related to the conduct of the NSTF, including board and lodging of the national technical working group (NTWG), official guests and participants, materials, transportation and communication relative to the activities, prizes and cash awards, and honoraria for the BOJ, and external as well as non-DepEd resource persons, shall be charged to the basic education curriculum funds, subject to the usual accounting and auditing rules and regulations.

16. Funds shall be downloaded to the host region or division to cover the cost of the following:

a. Board and lodging of NTWG, BOJs, and official delegates;
b. Support fund for travel expenses of NTWG and BOJs;
c. Meals of official delegates, NTWG, BOJs, and guests;
d. Rental of venues and equipment;
e. Service vehicles for NTWG and guests;
f. Payment for utilities;
g. Supplies and materials;
h. Tokens, medals, plaques, cash prizes, and certificates; and contingency and other related expenses incurred in the conduct of the NSTF.

17. A Statement of Expenditures by the host division or region audited by the local Commission on Audit and noted by the RD shall be submitted to the Chief of Accounting Division of the DepEd CO a month after the activity is conducted.

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18. For queries and concerns, please contact the **Bureau of Curriculum Development** via email at bcd.od@deped.gov.ph, and copy furnish Mr. Jios Ver D. Temporal, NSTF Focal person, through email nstf@deped.gov.ph.

19. Immediate dissemination of this Memorandum is desired.

By Authority of the Secretary:

**CARMELA C. ORACION**
Assistant Secretary
Officer-in-Charge
Office of the Undersecretary for Learning Systems

Encls.:
As stated

References:
DepEd Order (No. 010, s. 2024; 003, s. 2023; and 9, s. 2005)
DepEd Memorandum No. 016, s. 2025

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

BASIC EDUCATION
BUREAUS AND OFFICES
CELEBRATIONS AND FESTIVALS
CONTESTS
LEARNERS
LEARNING AREA, SCIENCE
PROGRAMS
SCHOOLS

JMC, MPC, DM NSTF SY 2025-2026
0028 - January 20, 2026

(Enclosure No. 1 to DepEd Memorandum No. 006, s. 2026)

**GUIDELINES ON THE SCIENCE AND TECHNOLOGY FAIR**

A. The National Science and Technology Fair

The National Science and Technology Fair (NSTF) is affiliated with the Society for Science & the Public and serves as a Science, Technology, Engineering, and Mathematics (STEM) talent pipeline. It identifies and selects young STEM enthusiasts to represent the country in international research and innovation competitions, most notably the annual International Science and Engineering Fair (ISEF), the world's largest and premier pre-college STEM competition held in the United States. This event brings together thousands of student researchers from more than eighty (80) countries, regions, and territories. Each ISEF finalist is honored by fellow learners, parents, teachers, mentors, sponsors, organizers, judges, government representatives, and the general public as they contribute to the global pursuit of scientific and technological advancements for sustainable development.

The NSTF provides a hands-on, interactive platform where students can apply their STEM knowledge and skills to real-world problems. This experiential learning fosters critical thinking, creativity, and problem-solving skills among learners.

By participating in science fairs, learners not only deepen their understanding of STEM concepts but also develop essential skills such as communication, innovativeness, teamwork, and perseverance. These events can ignite learners' passion for STEM, encouraging them to pursue further education and careers in the field and equipping them to meet the challenges of the future.

B. Fair Features

A. TUKLAS - A STEM research competition that provides opportunities for Junior and Senior High School learners to showcase their research projects based on their field of interest and/ or real-world problems, issues, and concerns

B. STEM INNOVATION EXPO - A STEM Innovation competition that aims to recognize the most creative and market-viable project addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture, and environment.

C. STEM ACADEMY - A conference designed to provide the participants with learning opportunities and experiences through various talks promoting innovation, creativity, and excellence in the fields of STEM.

D. AGHAM BAYANIHAN - A public community exhibition of the partners in STEM Research and Innovation showcasing their latest innovative products, technologies and services offered to the different sectors of the community.

C. Eligibility and Contest Mechanics

The competition is open to Grades 9–12 learners from both public and private high schools in the Philippines who have not reached the age of 20 on or before May 1 of the current school year.

Learners may work individually or in teams of two to three members from the same school. Each learner is allowed to submit only one (1) research project in one (1) of the five (5) research categories: Life Science, Physical Science, Robotics and Intelligent Machines, Mathematics and Computational Sciences, and STEM Innovation Expo. The project should cover no more than 12 months of continuous research and must not include research activities conducted before January of the previous school year. For example, for School Year 2025–2026, with classes targeted to open in June 2025 and ISEF scheduled for May 2026, research projects may span 1–12 month(s) from January 2025 to January 2026.

D. Conduct of the Different Levels of Research Competition

***School Science and Technology Fair (SSTF)***

*Pre-activity:*

- Category that best describes the project and presentation of research proposals for further revision and approval
- Orientation and agreements with parents/ guardians on the responsibilities of learners and supervisory adults in the specific arrangements during the research activity engagement
- Communication with the preselected qualified scientist/designated supervisor and RRI
- Submission of Memorandum of Agreement/ Understanding and other documentary requirements (if applicable) to the research institution prior to experimentation
- Completion of the required ISEF forms and certifications/pre-approvals before experimentation
- Conduct of the research and completion of required ISEF forms and data logbook entries for the accomplished research activities
- Writing of research manuscript and preparation for project poster display and oral defense presentation
- Meeting of the department head/chairman and Technical Working Group (TWG) for the planning of the conduct of the School Science and Technology Fair (SSTF)
- Issuance of school memorandum regarding the conduct of SSTF, which includes the mechanics, guidelines, criteria, schedule of activities, and TWG anchored on the Division, Region, and National Memorandum
- Signing of Non-Disclosure Agreements (NDA) with the adult sponsor, SRC, and TWG members
- Submission of three (3) hard and digital copies of properly color-coded and sequenced manuscripts, ISEF forms, data logbook, and other entry requirements (student media release forms, project evaluation forms, medical certificate, etc.) to the TWG on or before the deadline

- Forwarding of submitted manuscripts to the SRC for project pre-evaluation guided by the attached criteria
- Issuance of school memorandum regarding the results of the SRC review and the list of qualifiers for the SSTF and final judging. SRC's decision is final and irrevocable
- Returning of the qualified SSTF manuscripts and other entry requirements for further revisions based on the listed comments and suggestions by the SRC in the Review and Recommendation Report (RRR)
- Final meeting of the TWG for the preparations needed for the conduct of the SSTF
- Online resubmission of the digital copies of manuscripts, other entry requirements, and PowerPoint presentation for the STEM Congress to the SSTF focal person

*Activity Proper:*

- Registration of participants and submission of the three (3) soft-bound copies of color-coded manuscripts with tags to identify the revisions done based on the RRR. It is also suggested that the student researchers be in their formal attire during the conduct of the SSTF
- Setup for the project poster display that conforms with the display and safety regulations
- Project Poster Display inspection by the assigned TWGs to ensure adherence to the prescribed rules and guidelines
- Conduct of the SSTF opening program and on-site judging of the entries
- BOJ final evaluation of the qualified research entries through the STEM Congress
- Deliberation of the BOJ and awarding of the Top 5 winners for the individual and team projects in each research category; however, only the Top 3 will advance to the Division STF
- Other special awards (e.g., Best Poster, Best Presenter/s, Best Shoutout) and sponsored honorable awards by institutions/organizations may also be given to learners and advisors.
- **BOJ's decision is final and irrevocable.**
- Orientation of the student researchers and advisors of the Top 3 entries for the individual and team projects in each research category for further comments, suggestions, and other preparations needed as school representatives to the Division Science and Technology Fair (DSTF)

*Post-activity:*

- Issuance of school memorandum regarding the winners of the SSTF
- Final revision of the manuscripts and other entry requirements incorporating the recommendations by the SRC/BOJ
- Re-submission of the revised manuscripts and other entry requirements to the school SRC for final quality assurance
- Submission of the Top 3 Entries to the Division Level Science Fair Technical Working Group
- Conduct of STEM mentoring to improve learners' presentation skills and preparation of Project Poster Displays

***Division Science and Technology Fair (DSTF)***

*Pre-activity:*

- Planning and consultation meeting spearheaded by the Division Education Program Supervisors in Science and Math with the school heads, science and mathematics department heads, coordinators/focal persons, and TWG
- Issuance of the Division memorandum on the conduct of the DSTF aligned with the Regional and National Memorandum
- Identification of the division-level SRC based on the criteria set by NSTF and ISEF
- Evaluation of the research manuscripts, required forms, certifications/pre-approvals, and data logbooks of the school entries to the DSTF to be conducted by division-level SRC
- Orientation of division-level SRC members regarding the national laws, safety, and ethical considerations, and the rules and regulations set by NSTF and ISEF that need to be adhered to when conducting STEM investigations
- Signing of NDA with the SRC and TWG members
- Submission of the three (3) hard and digital copies of research manuscripts and other entry requirements of the Top 3 entries for the individual and team projects in each research category to the DSTF focal person with the attached report of the conduct of SSTF and endorsement by the school head on or before the deadline
- Submission of printed manuscripts to the SRC for project pre-evaluation guided by the attached criteria and RRR
- Issuance of division memorandum regarding the results of the SRC review and the list of qualifiers for the DSTF and final judging
- SRC's decision is final and irrevocable
- Returning of the qualified DSTF manuscripts and other entry requirements for further revisions based on the listed comments and suggestions by the SRC in the RRR
- Final meeting of the TWG for the preparations needed for the conduct of the DSTF
- Preparation of the 30-second video presentation for the school shoutout
- Online resubmission of the digital copies of manuscripts, other entry requirements, and PowerPoint presentation for the STEM congress to the DSTF focal person with official endorsement by the school head to the division office
- Online pre-registration of participants

*Activity Proper:*

- Registration of the learner researchers and adviser
- Submission of the school shoutout and three (3) soft-bound copies of color-coded manuscripts with tags to identify the revisions done based on the RRR. It is also suggested that student researchers be in their formal attire during the conduct of DSTF
- Setup for the project poster display that conforms with the display and safety regulations
- Project poster display inspection, which may include the TWG requiring learners to make revisions in the display boards to adhere to the prescribed rules and regulations
- Conduct of the DSTF opening program and on-site judging of the entries

- BOJ final evaluation of the qualified research entries through the STEM congress
- Deliberation of the BOJ and awarding of the Top 5 winners for the individual and team projects in each research category; however, only the Top 2 winners will proceed to the Regional STF
- Other special awards (e.g., Best Poster, Best Presenter/s, Best Shoutout) and sponsored honorable awards by institutions/organizations may also be given to learners and advisors.
- **BOJ's decision is final and irrevocable.**
- Orientation of the student researchers and advisors of the Top 2 entries or the individual and team projects in each research category for further comments, suggestions, and other preparations needed as division representatives to the Regional Science and Technology Fair (RSTF)

*Post-activity:*

- Issuance of division memorandum regarding the winners of the DSTF and the schedule of mentoring/coaching of the regional representatives to the RSTF pre-evaluation of research projects
- Final revision of the manuscripts and other entry requirements by incorporating the recommendations of the SRC/BOJ in the RRR
- Improving learners' presentation skills through the conduct of mock STEM congress
- Re-submission of the revised manuscripts and other entry requirements to the division SRC for the final quality assurance

***Regional Science and Technology Fair (RSTF)***

*Pre-activity:*

- Planning and consultation meeting spearheaded by the Regional Education Program Supervisors (REPSs) in Science and Math with the division EPSs in science and mathematics and other members of the RTWG
- Identification of the regional level SRC based on the criteria set by NSTF and ISEF. The regional level SRC will evaluate the research manuscripts, required forms, certifications/pre-approvals, and data logbooks of the division entries to the Regional Science and Technology Fair (RSTF)
- Orientation of SRC members regarding the national laws, safety and ethical considerations, and the rules and regulations set by NSTF and ISEF that need to be adhered to when conducting STEM investigations
- Signing of NDA with the and TWG members
- Issuance of the regional memorandum regarding the conduct of RSTF, which includes the mechanics, guidelines, criteria, schedule of activities, and TWG
- Submission of the three (3) hard and digital copies of research manuscripts and other entry requirements of the Top 2 entries for the individual and team projects in each research category to the RSTF focal person with the attached report of the conduct of DSTF and endorsement by the school's division superintendent on or before the deadline
- Submission of printed manuscripts to the SRC for project pre-evaluation guided with the attached criteria and RRR

- Issuance of regional memorandum regarding the results of the SRC review and the list of qualifiers for the RSTF and final judging
- SRC's decision is final and irrevocable
- Returning of the qualified RSTF manuscripts and other entry requirements for further revisions based on the listed comments and suggestions by the SRC in the RRR
- Final meeting of the TWG for the preparations needed for the conduct of the RSTF

- Preparation of the 30-second video presentation for the division shoutout
- Online resubmission of the digital copies of manuscripts, other entry requirements, and PowerPoint presentation for the STEM Congress to the RSTF focal person with official endorsement by the division office to the regional office
- Online pre-registration of participants

*Activity Proper:*

- Registration of the learner researchers and advisers
- Submission of the division shoutout and three (3) soft-bound copies of color-coded manuscripts with tags to identify the revisions done based on the RRR
- It is suggested that the student researchers be in their formal attire during the conduct of RSTF.
- Set-up for the project poster display that conforms with the display and safety regulations
- Project poster display inspection, which may include the TWG requiring learners to make revisions in the display boards to adhere to the prescribed rules and regulations
- Conduct of the RSTF opening program and on-site judging of the entries
- BOJ final evaluation of the qualified research entries through the STEM Congress
- Deliberation of the BOJ and awarding of the Top 5 Winners for the individual and team projects in each research category; however, only the Top 1 winner will qualify for the NSTF.
- Other special awards (e.g., Best Poster, Best Presenter/s, Best Shoutout) and sponsored honorable awards by institutions/organizations may also be given to learners and advisors.
- **BOJ's decision is final and irrevocable.**
- Orientation of the student researchers and advisors of the Top 1 entry for the individual and team projects in each research category for further comments, suggestions, and other preparations needed as regional representatives to the NSTF.

*Post-activity:*

- Issuance of regional memorandum regarding the winners of the RSTF and the schedule of mentoring/coaching of the regional representatives to the NSTF pre-evaluation of research projects
- Final revision of the manuscripts and other entry requirements by incorporating the recommendations of the BOJ

- Improving learners' presentation skills through the conduct of mock STEM Congress
- Re-submission of the revised manuscripts and other entry requirements to the regional SRC for the final quality assurance

***National Science and Technology Fair (NSTF)***

*Pre-activity:*

- Planning and consultation meeting spearheaded by the NSTF Focal Persons
- Identification of the national level SRC based on the criteria set by NSTF and ISEF
- The national-level SRC will evaluate the research manuscripts, required forms, certifications/pre-approvals, and data logbooks of the regional entries to the NSTF.
- Orientation of SRC members regarding the national laws, safety and ethical considerations, and the rules and regulations set by NSTF and ISEF that need to be adhered to when conducting STEM investigations
- Signing of non-disclosure agreements and waiver form with the SRC
- Issuance of the national memorandum regarding the conduct of NSTF, which includes the mechanics, guidelines, criteria, and schedule of activities.
- Submission of the digital copy of research manuscripts and other entry requirements including the scanned copy of the logbook of the Top 1 entry for the individual and team projects in each research category to the NSTF focal person.
- Forwarding of submitted manuscripts to the SRC for project pre-evaluation guided with the attached criteria and Review and RRR
- Issuance of national memorandum regarding the results of the SRC review and the list of qualifiers for the NSTF and final judging. SRC's decision is final and irrevocable, letter of appeal shall not be entertained.
- Providing a copy of the screening forms of qualified NSTF projects for further revisions based on the listed comments and suggestions by the SRC in the RRR
- Issuance of regional memorandum regarding the list of qualified entries and names of official regional delegates and other participants based on the allowed number of representatives per region
- Final meeting of the TWG for the preparations needed for the conduct of the NSTF
- Preparation and submission of the 30-second video presentation not exceeding 1080p resolution for the regional shoutout
- Submission of identified revisions done based on the RRR. Refer to enclosure 14 for the template.
- Preparation of polo shirt uniform for the opening program and souvenir items for the learners' mixer
- Online resubmission of the digital copies of manuscripts, other entry requirements, and video explainer for the STEM Congress to the NSTF focal person with official endorsement by the regional office to the central office
- Online pre-registration of participants on or before the deadline

*Activity Proper:*

- Registration and distribution of NSTF kits for the official regional delegates
- Conduct of the on-the-spot poster-making contest
- Set-up for the project poster display that conforms with the display and safety regulations
- Project poster display inspection, which may include the TWG requiring learners to make revisions in order to adhere to the prescribed rules and regulations
- Orientation of the student participants on the general guidelines and procedures for the opening ceremony, learners' mixer, on-site evaluation, STEM Congress, symposiums/ conferences, and awarding ceremony
- Learners and other official delegates are required to participate in all NSTF activities
- Conduct of the NSTF opening program
- BOJ final evaluation of the qualified research entries through the STEM Congress. It is suggested that the student researchers be in their formal attire during the conduct of NSTF on-site evaluation and congress
- Deliberation of the BOJ and awarding of the Top 3 Winners for the individual and team projects in each research category, NSTF 8 Best Projects, and other special awards (e.g., Best Poster, Best Presenter/s, Best Shoutout)
- **BOJ's decision is final and irrevocable.**

*Post-activity:*

**A. Conduct of the Online Mentoring Phase**

- Orientation of the student researchers and advisors of the eight best projects, who will undergo online mentoring and coaching to prepare their entries for pre-evaluation for the International Science and Engineering Fair.
- Each project will be assigned to a set of mentors who will provide comments and suggestions on the research plan, manuscript, project poster, and other entry requirements. Mentees should communicate with their mentors via email, using the assigned project code (e.g., LS-I, LS-T, etc.) as the subject. It is also recommended that the NSTF focal person and research adviser be included in all email threads to monitor progress during the mentoring/coaching phase.
- Clustered mentors assigned in each study will discuss their individual comments and suggestions provided to the assigned mentee/mentees. If there is dissensus among the members of the mentor group, the chair should mediate and interpose if necessary.
- The chair will send the recommendations to the mentee(s) via email, and the learners are expected to respond based on the suggested revisions.
- All mentors will evaluate and deliberate on the eight (8) projects for the selection of the official entries that will advance to the mentoring phase and be submitted to international research and innovation competitions. Learners, with the guidance of their research advisers and parents, are responsible for securing the necessary travel requirements, such as a passport and travel clearance for minors from the Department of Social Welfare and Development (DSWD). The DSWD also requires the submission of a PSA-issued birth certificate, parents' marriage certificate, an affidavit of consent from

both parents, an affidavit of support from the sponsoring agency, the passport of the accompanying adult, and the official invitation from ISEF.

**B. Conduct of the On-site Mentoring Phase**

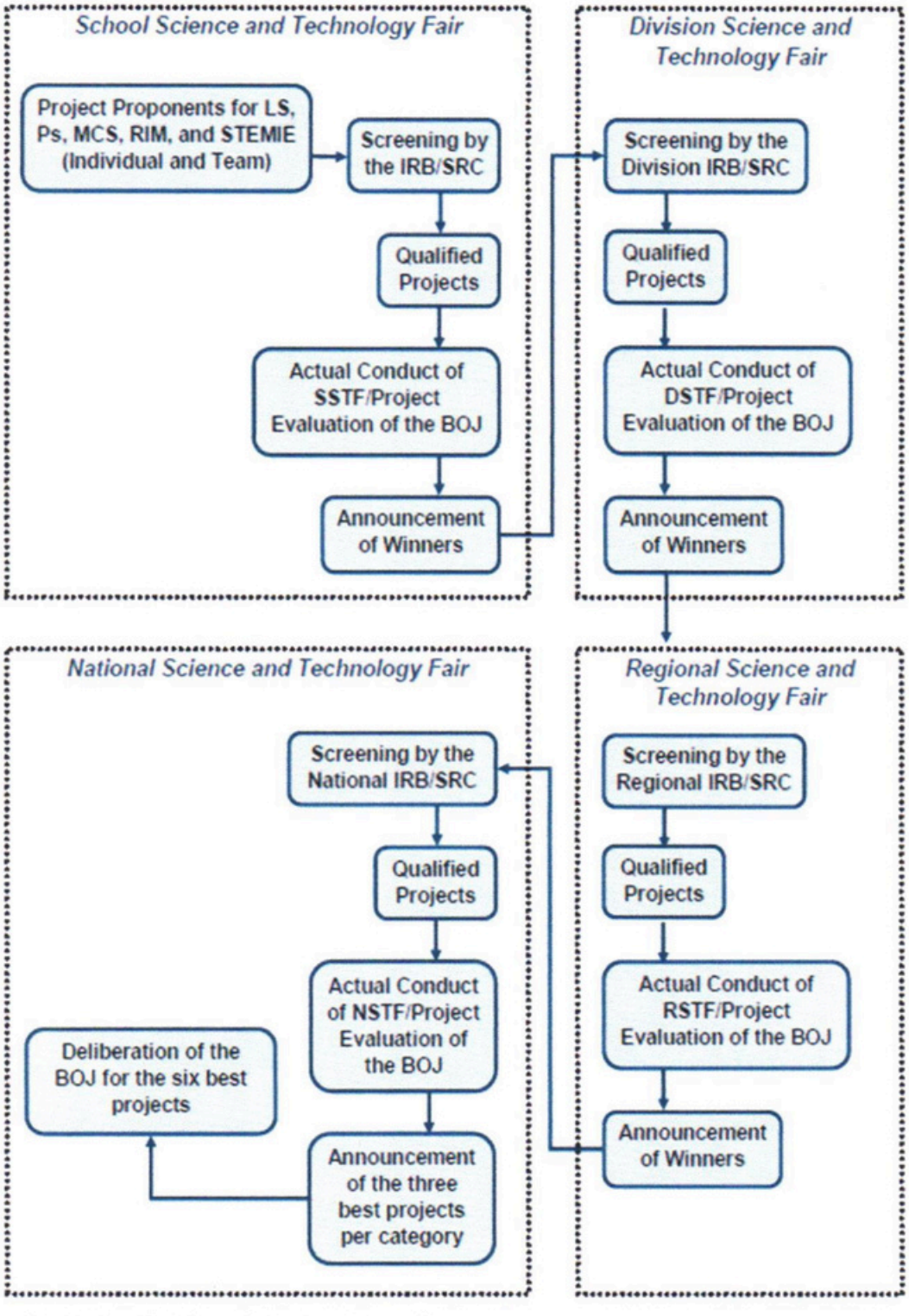
- The members of the Philippine Team will undergo pre-departure orientation regarding the preparations needed for the entry requirements (manuscript, project plan, ISEF forms, data logbook, certifications and/or prototype models), travel documents, schedule of activities of the ISEF and other related activities.
- The student researchers will undergo communication and presentation skills enhancement training with the mentors.

**E.** Composition of Scientific Review Committee

- The SRC must include a minimum of three members per category with at least three years of experience in STEM research and/or graduate degrees in STEM-related fields. It is recommended that the committee be composed of individuals with diverse expertise (e.g., an agronomist, STEM professor, or biomedical scientist for a life science research SRC). The technical working groups of the science fair, across all levels of governance, shall evaluate the qualifications of the SRC.
- Must be thoroughly familiar with ethical and safety considerations, national laws, and updated rules and regulations set by NSTF and ISEF.
- The Terms and Conditions form for SRC is provided in Enclosure 13

(Enclosure No. 2 to DepEd Memorandum No. 006, s. 2026)

**SCHEMATIC DIAGRAM OF THE FLOW OF STF ACTIVITIES**




*IRB: Institutional Review Board

(Enclosure No. 3 to DepEd Memorandum No. 006, s. 2026)

**TUKLAS RESEARCH PAPER FORMAT**

I. TUKLAS Categories

The STEM research competition is divided into four (4) categories. The student researchers and advisor should carefully consider which category best describes the research project. They may enter the competition as an individual or as a team.

***Life Science***

This category deals with living organisms such as plants, microorganisms, and animals, including humans and their life processes. Projects that involve systematic observation, development, experimentation, and understanding of living things and biological processes belong to this category. *Subcategories include Animal Sciences, Biomedical and Health Sciences, Cellular and Molecular Biology, Microbiology, Plant Sciences, and Translational Medical Science.*

***Physical Science***

This category deals with the nature and properties of non-living matter, energy and systems. Projects that involve systematic observation, development, experimentation, and understanding of materials and phenomena belong to this category. *Subcategories include Astronomy, Chemistry, Earth and Environmental Sciences, Energy, Engineering Technology, Statics and Dynamics, Sustainable Materials and Design, Environmental Engineering, Materials Science, and Physics.*

***Robotics and Intelligent Machines***

This category deals with the design, implementation, and use of prime technologies and machine intelligence in providing a wide range of innovative solutions and advancements across multiple disciplines to reduce reliance on human intervention. *Subcategories include Biomechanics, Cognitive Systems, Control Theory, Machine Learning, and Robot Kinematics.*

***Mathematics and Computational Science***

Mathematics deals with the measurement, properties and relationships of quantities and sets using numbers and symbols. *Subcategories include Algebra, Analysis, Combinatorics, Graph Theory, and Game Theory, Geometry and Topology, Number Theory, Probability and Statistics.*

Computational Science deals with the development and implementation of mathematical models and simulations to understand natural systems and processes and solve STEM problems using computers. *Subcategories include Computational Biology and Bioinformatics, Computational Chemistry, Computational Mechanics, and Theoretical, Computational and Quantum Physics.*

***Note:*** *For the full description of the sub-categories, selection, forms and sample project titles visit the official website of ISEF category at https://bit.ly/ISEF2025 or scan the QR code below.*

## II. RESEARCH PLAN

This should be written prior to experimentation, following the instructions below to detail the rationale, research questions, methodology, and risk assessment of the proposed study.

(This is compiled separately from the rest of the research manuscript.)

All projects should include the following:

a. *Rationale:* Include a brief synopsis of the background that supports your research problem and explain why this research is important, and if applicable, explain any societal impact of your research.
b. *Research Question or Problem* being addressed
c. *Goals/Expected Outcomes/Hypotheses*
d. *Procedures:* Detail all procedures and experimental design to be used for data collection.
e. *Risk and Safety:* Identify any potential risks and safety precautions needed.
f. *Data Analysis:* Describe the procedures to be used to analyze the data/results that answer research questions or hypotheses.
g. *Bibliography:* List at least five (5) major references (e.g., science journal articles, books, internet sites) from your literature review using the APA Manual of Style. If you plan to use vertebrate animals, one of these references must be an animal care reference.

## III. PROJECT DATA LOGBOOK

A project data logbook is an organizational tool used by student researchers to document and record the narrative and evidence of research activities, including planning, research design, drawings/illustrations, procedures, data collection, analysis and presentation, inferences, and conclusions. Detailed and accurate notes, whether in paragraphs or bullet points, demonstrate consistency and thoroughness, which will be helpful when writing the research paper.

It is recommended to use hard-bound notebooks instead of spring notebooks to prevent pages from being torn out, to write entries with permanent pens, and to minimize erasures. Representing procedures in flow charts and organizing data in tables are also helpful. Although entries may appear a little 'messy,' it is important to accurately record both qualitative and quantitative data (including units of measurement). Each logbook entry should be dated and signed by the supervising adult (if applicable) during the research activity.

## IV. RESEARCH PAPER FORMAT

***Science Project***

1. *INTRODUCTION* - What relevant background information supports your research problem/ questions?

   - Explain what is known or has already been done in your research area. Include a brief review of relevant literature. If this is a continuation project, a summary of your prior research is appropriate here. Be sure to distinguish your previous work from this year's project.

- Include a brief description on how your project will address an issue, concern, or problem. Explain why this research is important and any societal impact of your research.

2. *METHODS* – What procedures were carried out for the experimentation?
   - Explain in detail what you did. What data did you collect, and how did you collect that data? Discuss your control group and the variables you tested.
   - Discuss your control group and the variables you tested. The statistical treatment used and handling and disposal of waste may be included if applicable.
   - DO NOT include a list of materials.

3. *RESULTS* - What were the result(s) of your project?
   - Include tables and figures which illustrate your data.
   - Include relevant statistical analysis of the data.

4. *DISCUSSION* - What is your interpretation of these results?
   - What do these results mean? Compare your results with theories, published data, commonly held beliefs, and expected results.
   - Discuss possible errors. Did any questions or problems arise that you were not expecting? How did the data vary between repeated observations of similar events? How were results affected by uncontrolled events?

5. *CONCLUSIONS* - What conclusions did you reach?
   - What do these results mean in the context of the literature review and other work being done in your research area? How do the results address your research question? Do your results support your hypothesis?
   - What application(s) do you see for your work?

6. *REFERENCES* - What are your sources?
   - This section should not exceed one page. Limit your list to the most important references.
   - List the references/documentation used which were not of your own creation (i.e., books, journal articles).
   - Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: https://apastyle.apa.org/.

***Engineering Project***

1. *INTRODUCTION* - What is your engineering problem and goal?
   - What problem were you trying to solve? Include a description of your engineering goal.
   - Explain what is known or has already been done to solve the problem, including work on which you may build. You may include a brief review of relevant literature.
   - If this is a continuation project, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

2. *METHODS* – What are your methods and procedures for building your design?
   - Explain what you did. How did you design and produce your prototype? If there is a physical prototype, you may want to include pictures or designs of the prototype.
   - If you tested the prototype, what were your testing procedures? What data did you collect, and how did you collect that data?
   - DO NOT include a separate list of materials.

3. *RESULTS* - What were the result(s) of your project?
   - How did your prototype meet your engineering goal?
   - If you tested the prototype, provide a summary of testing data tables and figures that illustrate your results.
   - Include relevant statistical analysis of the data.

4. *DISCUSSION* - What is your interpretation of these results?
   - What do these results mean? You may compare your results with theories, published data, commonly held beliefs, and/or expected results.
   - Did any questions or problems arise that you were not expecting? Were these problems caused by uncontrolled events? How did you address these?
   - How is your prototype an improvement or advancement over what is currently available?

5. *CONCLUSIONS* - What conclusions did you reach?
   - Did your project turn out as you expected?
   - What application(s) do you see for your work?

6. *REFERENCES* – What are your sources?
   - This section should not exceed one page. Limit your list to the most important references.
   - List the references/documentation used which were not of your own creation (i.e., books, journal articles).
   - Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: https://apastyle.apa.org/.

***Mathematics and Computational Science Project***

1. *INTRODUCTION* - What is your research question?
   - Explain what is known or has already been done in your research area. Include a brief review of relevant literature.
   - If this is a continuation project, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

2. *FRAMEWORK* – What is your framework?
   - Introduce the concepts and notation needed to specify your research question, methods, and results precisely.
   - Define relevant terms, and explain prior/ background results. (Novel concepts developed as part of your project can be presented here or in Section 4, as appropriate.)

3. *FINDINGS* – What are your findings and supporting arguments?
   - What did you discover and/or prove? Describe your result(s) in detail. If possible, provide both formal and intuitive/verbal explanations of each major finding.
   - Describe your methods in general terms.
   - Present rigorous proofs of the theory results – or, if the arguments are long, give sketches of the proofs that explain the main ideas
   - For numerical/statistical results, include tables and figures that illustrate your data. Include relevant statistical analysis. Were any of your results statistically significant? How do you know this?

4. *CONCLUSIONS* - What is your assessment of your findings
   - How do the results address your research question? And how have you advanced your readers' understanding relative to what is already known?
   - Discuss possible limitations. Did any questions or problems arise that you were not expecting?
   - What challenges do you foresee in extending your results further?
   - What application(s), if any, do you see for your work?

5. *REFERENCES* – What are your sources?
   - This section should not exceed one page. Limit your list to the most important references.
   - List the references/documentation used which were not of your own creation (i.e., books, journal articles).
   - Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: https://apastyle.apa.org/.

## V. ABSTRACT

The abstract should be 250 words or less. Do not discuss specific aspects of the research in detail, including experimental procedures and statistical methods. Any information that is unnecessary to include in a brief explanation should be saved for the written research paper or the project exhibit board.

If the project is a continuation from a previous year, the abstract should only summarize the current year's work. If it is necessary to mention supporting research from the previous year(s), it must be minimal.

If the abstract text includes special characters, such as mathematical symbols, which cannot be translated electronically, spell out the symbol.

Do not include acknowledgments in the abstract. There should be no references to mentors, institutional facilities, and awards or patents received.

***Title***
***Finalist's Name (or names, if a team project)***
***School Name, City and Region***

***Purpose***
- An introductory statement providing background or the reason for investigating the project topic.
- A statement of the problem the research is looking to solve or the questions being tested.

***Procedure***

- A brief overview of how the investigation was conducted, highlighting key points and including methods and resources used.
- Do not provide details about materials used in the research unless they greatly influenced the procedure or were needed to conduct the investigation.
- An abstract should only include procedures done by the Finalist. Do not include work done by a mentor (such as surgical procedures) or work done prior to the Finalist's involvement.

***Observations/Data/Results***

- This section should provide key results that lead directly to the conclusions.
- Do not include unnecessary data or observations about the results, nor tables, charts, graphs, or other images. While these belong in the research paper or the project board, they do not belong in the formal ISEF abstract.
- Unless significant, do not include any of the experimental design difficulties encountered in research.

***Conclusions***

- This section should be confined to a short summary in 1-2 sentences. It is a reflection on the research process and results, which may include conclusive ideas, important applications, and implications of the research.
- The ISEF abstract does not include a bibliography.
- ISEF requires the bibliography as part of the research plan to be provided on Form 1A.

***Ethics Statement***

- Scientific fraud and misconduct are prohibited at any level of research or competition.
- Plagiarism, use or presentation of other research's work as one's own, and fabrication of data will not be tolerated. Fraudulent projects are disqualified from the competition.

(Enclosure No. 4 to DepEd Memorandum No. 006, s. 2026)

**TUKLAS PROJECT POSTER DISPLAY FORMAT AND**

**SAFETY GUIDELINES AND SAMPLE ABSTRACTS**

***Display Guidelines***

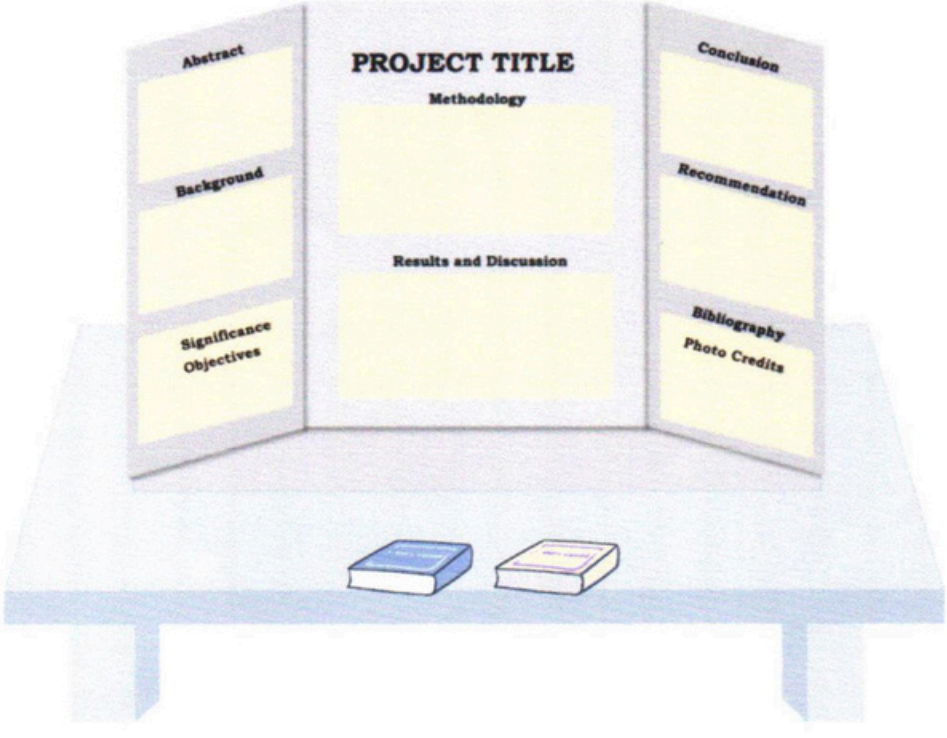
The project display, printed on photo paper, should summarize the research project and focus on the proponent's work for this year's study, with only minimal reference to previous research, if applicable. It shall be in trifold setup capable of standing on its own on the provided table. Researcher/s may use cardboard or illustration board to make the poster sturdy. Tarpaulins are not allowed at any level of Science Fair competition, in support of the government's environmental advocacy to reduce the consumption of non-biodegradable or non-recyclable materials.

Safety regulations must adhere to or be consistent with the guidelines set by the International Science and Engineering Fair (ISEF).

The project poster display should include the following items: Abstract, Background, Objectives, Significance, Methodology, Results and Discussion, Conclusion, Recommendations, Bibliography, and, Photo Credits (including illustrations and graphics).

***Project Poster Display Dimension***

The dimensions of the project poster display should be 48 inches wide and 48 inches in height and should be able to stand on a table. A sample is provided below.



***Research Logbook:***

These forms do NOT need to be in this particular order, just present in the logbook.

1. Signed ISEF Abstract
2. Signed Checklist for Adult Sponsor Form 1
3. Student Checklist Form 1A
4. Research Plan
5. Signed Approval Form 1B
6. All other pertinent ISEF forms

***Photography/Images:***

Display of photographs other than that of the learner/s MUST have a photo release signed by the subject, and if under 18, also by the guardian of the subject.

Any photography, visual image, chart, table, and/or graph is allowed if:

1. It is not deemed offensive or inappropriate (which includes images/photos showing vertebrate animals/ humans in surgical, necrotizing or dissection situations) by the SRC, Display & Safety Committee.
2. It has a credit line of origin.
3. If it is from the Internet, magazine, newspaper, journal, etc., and a credit line is attached.
4. It is a photograph or visual depiction of the finalist.
5. It is a photograph or visual depiction for which a signed consent form is at the project.
6. Images used as backgrounds including those created or taken by the researcher must also be credited.

Items NOT Allowed to be Displayed with the Project:

1. Awards, medals, business cards, flags, logos, CDs, DVDs, flash drives, brochures, booklets, endorsements, giveaway items, and/or acknowledgments (graphic or written) unless the item(s) are an integral part of the project.
2. Postal addresses, Internet, email and/or social media addresses, QR codes, telephone and/or fax numbers of a student.
3. Active internet or email connections as part of the display or operating the project.

***Safety Guidelines***

Items NOT Allowed at the Project poster display:

1. Living organisms, including plants
2. Soil, sand, rock, and/or waste samples, even if permanently encased in acrylic
3. Taxidermy specimens or parts
4. Preserved vertebrate or invertebrate animals
5. Human or animal food
6. Human or animal parts or body fluids
7. Plant materials (living, dead, or preserved) that are in their raw, unprocessed, or non-manufactured state (Exception: manufactured construction materials used in building the project or display)
8. All chemicals, including water (projects may NOT use water in any form in a demonstration)
9. All hazardous substances or devices (i.e., poisons, drugs, firearms, weapons, ammunition, reloading devices, lasers, etc.)
10. Dry ice or other sublimating solids
11. Sharp items (i.e., syringes, needles, pipettes, knives, etc.)
12. Flames or highly flammable materials
13. Batteries with open-top cells
14. Glass or glass objects, unless deemed by the Display & Safety Committee to be an integral and necessary part of the project
15. Any apparatus deemed unsafe by the Scientific Review Committee, the Display & Safety Committee of the Fair

***Other Safety Restrictions:***

1. Any inadequately insulated apparatus producing extreme temperatures that may cause physical burns is not allowed.
2. Any apparatus with unshielded belts, pulleys, chains, or moving parts with tension or pinch points must be for display only.
3. Project sounds, lights, odors or any other display items must not be distracting.
4. The Display & Safety Committee and/or the Scientific Review Committee at various levels of the Science Fair reserve the right to remove any project for safety reasons or to protect the integrity of the NSTF and its rules and regulations.

**SAMPLE ABSTRACTS**

| **2018 ISEF Second Grand Award, Energy Physical** | **2024 REGENERON ISEF National Geographic Society Excellence in Geography and Geospatial Science Award** |
|---|---|
| **Solar-Tracking Adaptive Robot PV Panels**<br>By Cadores, Keith Russel ; Rivera, Eugene ; Manzanero, Joscel Kent<br>Adviser: Johnny T. Samino<br><br>The leading sources of energy globally are oil, coal, and natural gas - fossil fuels that can be depleted, and whose access and use greatly impact the environment. Hence, much study has been made of renewable energy sources and use, including harnessing solar power through a photovoltaic cell. The study aimed to improve the power harvesting and generating capacity of photovoltaic cells by designing and building a solar device that mimics a flower opening when the sun is out, tracks the sun's movement, closes when the light source is no longer detected and responds to humidity and temperature to maximize power generation. Six (6) photovoltaic panels are mounted on a base operated by servo motors and controlled by Arduino module. Electronics, servo motors, Arduino, and humidity sensors were acquired commercially. Other material included those repurposed from a broken umbrella and electric fan, and scrap acrylic sheets. The device's performance was compared to that of a fixed-mounted photovoltaic panels at different angles. The fixed setup generated 4.71W while the petal panels produced 6.95W, a 47.72% increase. Taxing the power consumption of the device to the power it generates gives an average of 6.09W. This translates to a 29.29% improvement from the 4.71W generated by the fixed panel setup. T Test for Dependent Means was used and showed that there is a significant difference between the power generations of the two setups ($p = 0.000261$, $a = 0.05$). This robotic design amplifies capacity to harness solar power through a photovoltaic cell. | **Flood Mitigation of Tarlac City Through 3D Simulation of Groundwater Discharge to Flood Inundation Using Rainfall Prediction and Integration of Spatio-Temporal GIS in Hydrodynamic Models**<br>By Arnon Yzabel G. Guinto<br>Adviser: Nica Joyce Aquino<br><br>The Philippines, ranking as the third most vulnerable nation to natural disasters on a global scale, faces escalating danger posed by typhoons and floods, resulting in significant human casualties, property destruction, and economic repercussions. Among the regions susceptible to such hydrological threats, Tarlac City stands out as particularly prone to inundation. This research aims to address this challenge by proposing the development of a 3D spatio-temporal Geographic Information System (GIS) along with a hydrodynamic model, specifically designed to replicate flood inundation induced by rainfall, groundwater discharge dynamics, and surface flooding occurrences in Tarlac City. It emphasizes its proficient application of advanced methodologies for flood prediction and risk assessment within Tarlac City. Results showed that the Long- Short Term Memory Neural Network effectively anticipates rainfall patterns, while hydrological data facilitated the development of a 3D digital elevation map. The elevation of the areas ranges from 44.69 ft to 57.55 ft, while the low-lying area, Amucao, has an elevation of 24.38 ft to 32.5 ft. This information supplements groundwater discharge data to create a flood inundation model, enabling the identification of flood-prone regions. Moreover, areas in San Vicente, San Roque, Part San Sebastian, San Isidro, Maliwalo, Matatalaib, Tibag, F. Tañedo were prone to minimal to severe risks of flooding. In conclusion, this research augments the disaster preparedness within barangays in Tarlac City susceptible to flooding, contributing significantly to risk mitigation. |

(Enclosure No. 5 to DepEd Memorandum No. 006, s. 2026)

**STEM INNOVATION EXPO PAPER FORMAT**

***Title Page and Table of Contents:***

The title page and table of contents allow the reader to follow the organization of the paper quickly.

***Introduction:***

1. **Features and Specifications** – This describes the details of your innovation.

2. **Market Trends and Opportunities** – This part of the report must include three items: an explanation of what inspired you to develop this invention, a description of the problem your invention will solve, and a detailed account of how you confirmed that your invention does not exist yet. Additionally, identify similar products currently on the market and explain how your invention differs.

***Materials and Methods:***

Describe in detail how you made your innovation. Explain what materials were used and how you put them together to make your invention. Your report should be detailed enough so others can repeat the steps and make your invention. Directions on how to use the invention are also necessary here. You must include detailed drawing(s) of your invention.

***Results and Discussion:***

This is the essence of your paper. Compare your results with theoretical values, published data, literature and related studies, commonly held beliefs, and/or expected results. Include a discussion of possible errors, statistics, graphs, pages with your raw collected data, etc. How did the data vary between repeated observations of similar events? How were your results affected by uncontrolled events? What would you do differently if you repeated this project? What other experiments should be conducted?

***Conclusions:***

This discusses the potential applications, possible customer benefits, and the impact of the findings/results in solving problems and issues of today and tomorrow.

***Acknowledgements:***

This part gives credit to those who have assisted you, including individuals, businesses, and educational or research institutions.

***References/Bibliography:***

Your reference list should be written based on the APA Manual of Style.

**SAMPLE STEM INNOVATION EXPO POSTER OUTLINE**

| | |
|---|---|
| *TITLE* | The title should be short but would capture the essence of the product/invention |
| *PICTURE* | Picture of the product/invention only |
| *OVERVIEW* | What problem is solved by the invention? What are the existing solutions and what limitations do these solutions have? |
| *KEY FEATURES* | What are the novelty features of this invention? |
| *BENEFITS AND IMPACTS* | What are the benefits/impact of this invention? |
| *DEVELOPER'S NAME* | Who is/are the inventors? |

***Specifications:*** Each Project Poster Display must be 48 inches wide and 48 inches in height (trifold)

(Enclosure No. 6 to DepEd Memorandum No. 006, s. 2026)

## CHECKPOINTS FOR SRC REVIEW

| TYPE OF FORM | WHO WILL FILL OUT? | WHEN TO FILL OUT? | WHEN IT IS REQUIRED? |
|---|---|---|---|
| Form 1 - Checklist for Adult Sponsor | Research Adviser | Before experimentation | Required for all Projects |
| Form 1A - Student Checklist | All student researchers | Before experimentation | Required for all Projects |
| Form 1B - Approval Form | All student researchers | Before experimentation | Required for all Projects |
| Research Plan/Project Summary | All student researchers | Before experimentation | Required for all Projects |
| Form 1C - Regulated Research Institution/ Industrial Setting Form | Adult supervising | After experimentation | Required if research conducted in a regulated research institution, industrial setting or any work site other than home, school or field |
| Form 2 - Qualified Scientist Form | Qualified Scientist/ Adult Supervising | Before experimentation | Required if research involving human participants, vertebrate animals, potentially hazardous biological agents and hazardous |
| Form 3 – Risk Assessment Form | Student Researcher/s Qualified Scientist/ Adult Supervising | Before experimentation | Required for all Projects |
| Form 4 – Human Participants Form | Student Researcher/s Institutional Review Board | Before experimentation | Required if research involves human participant **if in a regulated research institution use institutional approval forms* |
| Form 4A – Human Informed Consent Form | Student Researcher/s | Before experimentation | Required if research involves human participant |

| TYPE OF FORM | WHO WILL FILL OUT? | WHEN TO FILL OUT? | WHEN IT IS REQUIRED? |
|---|---|---|---|
| Form 5A – Vertebrate Animal Form | Student Researcher/s<br>Scientific Review Committee<br>Veterinarian<br>Designated Supervisor<br>Qualified Scientist | Before experimentation | Required for all research involving vertebrate animals that is conducted in a school/home/field research site |
| Form 5B – Vertebrate Animal Form | Student Researcher/s<br>Qualified Scientist | After experimentation | Required for all research involving vertebrate animals that is conducted in Regulated Research Institution |
| Form 6A – Potentially Hazardous Biological Agents Risk Assessment Form | Student Researcher<br>Qualified Scientist/Designated Supervisor<br>Scientific Review Committee | Before experimentation | Required for research involving microorganisms, rDNA, fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids. |
| Form 6B – Human and Vertebrate Animal Tissue | Student Researcher<br>Qualified Scientist/Designated Supervisor | Before experimentation | Required for research involving fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids. If the research involves living organisms, please ensure that the proper human or animal forms are completed. |
| Form 7 – Continuation/ Research Progression Projects Form | Student Researcher | After experimentation | Required for projects that are a continuation/ progression in the same field of study as previous project. |

(Enclosure No. 7 to DepEd Memorandum No. 006, s. 2026)

**LEARNERS MEDIA RELEASE CONSENT FORM**

I, _____, hereby give my full and voluntary consent to appear, or for my work or performance to appear, in any recording, film, photograph, audiotape, or videotape, or any other similar medium, of the Department of Education (DepEd) and any of its representatives in relation to the National Science and Technology Fair for the School Year 2025 – 2026, and for the same to be used for the communications and various public campaigns of DepEd, be it in print, broadcast, and/or electronic media or any other platform now known or hereafter developed.

I further authorize DepEd to edit, use, and reuse said materials for nonprofit purpose, including use in print, on the internet, in broadcasts, and all other forms of media.

I understand that I shall not be entitled to any compensation or remuneration for the use of such materials, and I waive any right to inspect or approve the final version of said materials.

I also hereby release DepEd, its representatives, officers, and its and employees from all claims, demands, liabilities and causes of action whatsoever in connection with the above.

I certify that I have read the Media Consent and Release Form, fully understand its terms and conditions, and sign this Form voluntarily and with full knowledge of its contents.

**Agreed and accepted by**

Signature of Learner: _____
Date: _____
Address of Learner: _____

**Parental Consent:**

I certify that I am the parent or guardian of, _____, a minor under the age of eighteen years. I hereby agree to assume legal responsibility of his/her authorizations referred to in this Form.

_____
Parent/Guardian Signature Over Printed Name

Address: _____
Date: _____

(Enclosure No. 8 to DepEd Memorandum No. 006, s. 2026)

**NON-DISCLOSURE AGREEMENT (NDA) FORM**

I, _____, of legal age, Filipino, and with residence address at _____, have accepted voluntarily the role as Screening Review Committee/Judge/Mentor/Adviser.

I understand that all materials, documents, information, and any other content that I receive and access from the activity are the exclusive property of _____ and are strictly confidential. Accordingly, I hereby commit not to copy, reproduce, distribute, multiply, photograph, and/or disseminate any part of the instruments, materials, information, documents, or any other related content or property, whether physical or digital form. I further acknowledge that I am obligated to use said forms and materials solely for the duration of the activity, and only in accordance with my assigned role as stated in my Terms of Reference until _____ .

I understand that if I am found to have violated the conditions set for the service I rendered, I will be held accountable for my actions.

I certify that I have read this Non-Disclosure Form, fully understand its terms and conditions, and sign this Form voluntarily and with full knowledge of its contents.

CONFORME:

_____
Signature Over Printed Name

Date: _____
Contact Number: _____
E-mail address: _____
Witnessed by: _____

(Enclosure No. 9 to DepEd Memorandum No. 006, s. 2026)

## REPORT OF THE CONDUCT OF THE STF

*The consolidated report of the conduct of the STF must be submitted to the NSTF Technical Working Group before the conduct of the National Level Science Fair. The report should include the following:*

**1. Title**
**2. Table of Contents**
**3. Introduction/Rationale**
**4. Detailed Information**

- General information
- List of SRC members (name, designation, and affiliation)
- SRC Deliberation (include the results, findings and recommendations)
- Program of Activities (day-to-day activities)
- List of Entries (include a brief profile of the research adviser of each entry)
- List of Winners (Research & Innovation Congress)
- Total Number of Projects
- Number of Projects involving Vertebrate Animals
- Number of Projects involving Human Participants
- Number of projects involving Potentially Hazardous Biological Agents
- Number of projects approved
- Number of projects failed to qualify
- Trend Analysis (results from 3 consecutive years)
- Financial Report

**5. Conclusions**
**6. Recommendations**
**7. Appendix**

## LIST OF FORMS AND DOCUMENTS REQUIRED FOR SUBMISSION IN ALL LEVELS OF COMPETITION

*The following are the forms and manuscripts for submission in ALL levels of the competition:*

**1. Research Plan**
**2. Forms for all the Projects**

- Checklist for Adult Sponsor (1)
- Student Checklist (1A)
- Research Plan (NOTE: No need to attach the Research Plan Instructions.)
- Approval Form (1B)
- Regulated Research Institutional/Industrial Setting Form (1C)

**3. Forms depending on the type of research (e. g involving humans, vertebrate animals, hazardous chemicals, etc.**

- Qualified Scientist Form (2)
- Risk Assessment Form (3)
- Human Participants Form (4)
- Human Informed Consent Form
- Vertebrate Animal Form (5A)
- Vertebrate Animal Form (5B)
- Potentially Hazardous Biological Agents Risk Assessment Form (6A)
- Human and Vertebrae Animal Tissue Form (6B)
- Continuation Project Form (7)

**4. Abstract (Maximum of 250 words)**
**The abstract should include the following:**

- Purpose of the experiment
- Procedure
- Data conclusion
- The abstract may NOT include the following: Acknowledgement AND Work of procedures done by the mentor

**5. Research Paper**
**6. Project Evaluation Form**
**7. Scanned copy of the logbook in PDF format**

(Enclosure No. 10 to DepEd Memorandum No. 006, s. 2026)

## OFFICIAL LIST OF PARTICIPANTS TEMPLATE

*(This template should be accomplished and submitted with the official endorsement.)*

**Region:** _____

| No. | First Name | Middle Initial | Last Name | Grade level | School Name | Division | Gender | Category Code | Resesarch Adviser (FN, MI, SN) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Data | Total | Data | Total |
|---|---|---|---|
| No. of female | | No. of Robotics and Intelligent Machines Project Entries | |
| No. of male | | No. of Mathematics and Computer Sciences Project Entries | |
| No. of participating schools | | Grade 7 Student Participants | |
| No. of participating private schools | | Grade 8 Student Participants | |
| No. of Participating SPSTEM Schools | | Grade 9 Student Participants | |
| No. of Participating SPSTEM Male Students | | Grade 10 Student Participants | |
| No. of Participating SPSTEM Female Students | | Grade 11 Student Participants | |
| No. of Individual Project Entries | | Grade 12 Student Participants | |
| No. of Team Project Entries | | No. of Participating Teachers | |
| No. of Life Sciences Project Entries | | | |
| No. of Physical Sciences Project Entries | | | |

***Note:***

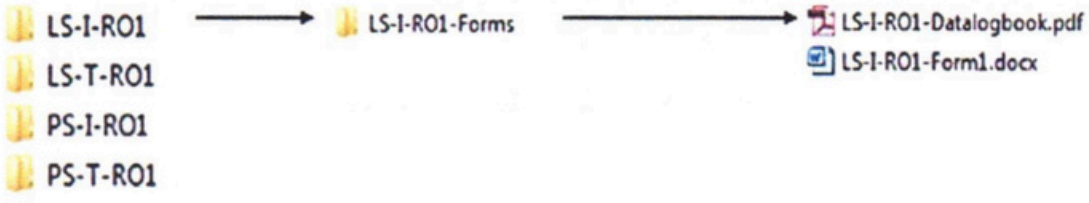
- *This template should be accomplished in an MS Excel spreadsheet, attached to the official endorsement, and sent through nstf@deped.gov.ph on or before due date.*
- *Include all schools that participated in the Division STF.*
- *Insert the corresponding symbol before the name of the school classified as:*
  - \+ *Special Science Classes of S&T Oriented High Schools or Science, Technology, and Engineering (STE) Program*
  - ++ *Legislated Science High School (LSHS)*
  - Δ *Regional Science High School (RSHS)*
  - ΔΔ *Philippine Science High School (PSHS)*

Prepared by: _____
Email address: _____
School/Office: _____
Regional Coordinator: _____

(Enclosure No. 11 to DepEd Memorandum No. 006, s. 2026)

## PROJECT LABELING AND CODING

| FOLDER CODE | CONTENT OF THE FOLDER | SAMPLE CONTENT OF THE FOLDER FOR FORMS |
|---|---|---|
| **LS-I-R01**<br>**Life Science-Individual-Region* | **Manuscript:**<br>**LS-I-R01-School Name** | |
| | **Folder Containing the Needed Forms**<br><br>**LS-I-R01-Forms**<br>**Name of the folder where all the soft-copies of the necessary forms are found* | **LS-I-R01-Form1**<br>**LS-I-R01-Form2**<br>**LS-I-R01-Logbook** |




| CODES | COLOR CODING |
|---|---|
| LS-I | GREEN |
| LS-T | YELLOW |
| PS-I | BLUE |
| PS-T | ORANGE |
| RIM-I | PINK |
| RIM-T | BROWN |
| MCS-I | RED |
| MCS-T | PURPLE |
| STEMIE-I | BLACK |
| STEMIE-T | WHITE |

(Enclosure No. 12 to DepEd Memorandum No. 006, s. 2026)

**BOARD OF JUDGES TERMS AND CONDITIONS FORM**

I, _____, hereby acknowledge and agree to the following provisions as a judge in the NSTF:

- I commit to adhering to all rules, regulations, and guidelines set forth by the NSTF.
- I affirm that I have not previously served as a scientific research committee member from SSTF to RSTF nor a judge at any level of the **DepEd Science and Technology Fair SY** _____.
- I am not affiliated with any participating learner, teacher, research adviser, supervisor, or DepEd personnel in the NSTF. This includes any personal or professional relationships that could compromise impartiality.
- I will disclose any potential conflicts of interest prior to my participation as a judge.
- I will maintain the confidentiality of all information related to the projects, participants, and judging process. I will not disclose any information to unauthorized persons.
- I will submit all documents, such as evaluation forms, rating sheets, and others, in the conduct of the NSTF.
- I will submit pertinent documents and information required for the processing of the payment of my honorarium within a week after accepting the invitation.
- I commit to maintaining a professional demeanor throughout the fair. I will treat all participants, fellow judges, and staff with unwavering respect and impartiality.
- I will review and evaluate each project objectively, without any bias, and solely based on the project's merits according to the established criteria.
- I will ensure my availability to attend on-site on the designated day(s) for the evaluation process and deliberation of winners.
- The **National Technical Working Group (NTWG)** reserves the right to dismiss my participation as a judge in the NSTF if I am found to have violated any of the foregoing conditions.
- I acknowledge that the decisions made by the NTWG are final and binding. I agree to adhere to their rulings and directives.

I hereby affirm that I have read and understood the terms and conditions set forth herein and agree to abide by them.

_____
Signature over printed name

Date: _____

Type of valid ID presented: _____
ID number: _____
Email address: _____
Contact no.: _____

(Enclosure No. 13 to DepEd Memorandum No. 006, s. 2026)

**SCIENTIFIC REVIEW COMMITTEE TERMS AND CONDITIONS FORM**

I, _____, hereby acknowledge and agree to the following provisions as an SRC member in the NSTF:

- I commit to adhere to all rules, regulations, and guidelines set forth by the NSTF, and failure to comply thereto may result in my dismissal as a scientific review committee member.
- I affirm that I have not previously served as a scientific review committee member or judge at any level of the **DepEd Science and Technology Fair SY** _____.
- I am not affiliated with any participating learner, teacher, research adviser, supervisor, or DepEd personnel in the NSTF. This includes any personal or professional relationships that could compromise impartiality.
- I will disclose any potential conflicts of interest prior to my participation as a judge. I understand that failing to disclose such conflicts may result in my dismissal as a judge.
- I will maintain the confidentiality of all information related to the projects, participants, and screening process. I will not disclose any information to unauthorized persons.
- I will submit all necessary documents such as evaluation forms, rating sheets, and other pertinent documents in the conduct of the NSTF.
- I commit to maintaining a professional demeanor throughout the fair. I will treat all participants, fellow SRC members, and staff with unwavering respect and impartiality.
- I will review and evaluate each project objectively, without any bias, and solely based on the project's merits according to the established criteria.
- The **National Technical Working Group (NTWG)** reserves the right to dismiss my participation as a scientific research committee member in the NSTF if I am found to have violated any of the foregoing conditions.
- I acknowledge that the decisions made by the NTWG are final and binding. I agree to adhere to their rulings and directives.

I hereby affirm that I have read and understood the terms and conditions set forth herein and agree to abide by them.

_____
Signature over printed name
Date: _____

Type of valid ID presented: _____
ID number: _____
Email address: _____
Contact no.: _____

(Enclosure No. 14 to DepEd Memorandum No. 006, s. 2026)

## A. REVIEW AND RECOMMENDATION REPORT

**Project Title:** _____

**Fair Category:** [ ] LS-I [ ] LS-T [ ] PS-I [ ] PS-T
[ ] MCS-I [ ] MCS-T [ ] RIM-I [ ] RIM-T

***Instruction:*** *Please put a check [ ] in the appropriate column and if necessary, write recommendations on the space provided*

| **PART 1: REQUIRED FORMS FOR ALL RESEARCH** | **COMPLETE** | **INCOMPLETE** | **RECOMMENDATIONS** |
|---|---|---|---|
| 1. Checklist for Adult Sponsor (1). Is it accomplished and signed? | | | |
| 2. Student Checklist 1A. Is it complete? | | | |
| If the answer to Item 6 of Form 1A is **YES**, Form 7 must also be accomplished (See Part 2, Item 13 below) | | | |
| If answer to item 8 is **Research Institution or Other**, must also have Form 1C (See Part II, item 6 below) | | | |
| 3. **Research Plan** (Attachment to item 2, above). Does it include the following: | | | |
| **A. RATIONALE.** Does it include a synopsis of background information that supports the research problem and explains why the research is important scientifically? If applicable, does it explain the societal impact of the research? | | | |
| **B. HYPOTHESIS(ES), RESEARCH QUESTION(S), ENGINEERING GOAL(S), EXPECTED OUTCOMES.** Is this based on RATIONALE? | | | |
| **C. RESEARCH METHODS AND CONCLUSIONS.**<br>**a. Procedures.**<br>i. Does it show all procedures and experimental designs, including methods for data collection?<br>ii. There should be NO inclusion of work of mentor or others.<br>iii. Parameters should NOT be too strict to allow for possible changes. | | | |
| **b. Risk and Safety**. Does it identify all potential risks and safety precautions needed? | | | |

| | | | |
|---|---|---|---|
| **c. Data Analysis**. Does it describe all procedures for data analysis? Parameters should NOT be too strict to allow for possible changes. | | | |
| **D. BIBLIOGRAPHY.** Does it have at least 5 major references? If using vertebrate animals, include 1 reference on animal care. (APA Manual of Style) | | | |
| **Note: Items 3.E-G are needed ONLY for research on HUMAN PARTICIPANTS, VERTEBRATE ANIMAL, POTENTIALLY HAZARDOUS BIOLOGICAL AGENTS** (see attached Research Plan/Project Summary Instructions) | | | |
| **E. HUMAN PARTICIPANTS RESEARCH.** Does it provide for the following?<br>a. Description<br>b. Recruitment<br>c. Methods<br>d. Risk Assessment<br>e. Protection of Privacy<br>f. Informed Consent Process | | | |
| **F. VERTEBRATE ANIMAL RESEARCH.** Does it provide for the following?<br>a. Potential ALTERNATIVES to vertebrate animal use<br>b. Potential impact or contribution of research<br>c. Detailed procedures<br>d. Detail animal numbers, strain, sex, age, source, etc.<br>e. Describe housing and oversight of daily care<br>f. Disposition of animals at study termination | | | |
| **G. POTENTIALLY HAZARDOUS BIOLOGICAL AGENTS RESEARCH.** Does it provide for the following?<br>a. Biosafety Level (BSL) Assessment and determination<br>b. Source of agent, specific cell line.<br>c. Safety precautions<br>d. Methods of disposal | | | |
| 4. Approval Form 1B (for ALL students) | | | |
| 5. Abstract | | | |

**VERY IMPORTANT 2: See Part 2, Item 8 Risk Assessment Form (3) for:**

a. studies involving protists, archaea, and similar microorganisms;
b. research using manure for composting, fuel production, or other non-culturing experiments;
c. commercially available color change coliform water test kits. These kits must remain sealed and must be properly disposed;
d. studies involving the decomposition of vertebrate organisms (such as in forensic projects); and
e. studies with microbial fuel cells.

| PART 2: ADDITIONAL REQUIRED FORMS | COMPLETE | INCOMPLETE | RECOMMENDATIONS |
|---|---|---|---|
| **6. Regulated Research Institutional or Industrial Setting Form (1C).** Must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution or any work site aside from home, school or field. **Is it properly accomplished and signed by the DESIGNATED SUPERVISING ADULT?** | | | |
| **7. Qualified Scientist Form (2).** For research with human participants, vertebrate animals, potentially hazardous biological agents, Drug Enforcement Administration (DEA)-controlled substances; completed and signed BEFORE start of experimentation. **Is it properly accomplished and signed by the QUALIFIED SCIENTIST?** | | | |
| **8. Risk Assessment Form (3).** For research using hazardous chemicals, activities or devices and microorganisms exempt from pre-approval. Must be completed BEFORE experimentation. **Is it properly accomplished and signed by DESIGNATED SUPERVISING ADULT OR QUALIFIED SCIENTIST (when applicable)?** | | | |
| **9. Human Participants Form (4),** For research involving human participants not at a Regulated Research Institution. **Did the the DESIGNATED ADULT SUPERVISOR/ INSTITUTION approve the research BEFORE experimentation?** | | | |

| | | | |
|---|---|---|---|
| **10. Vertebrate Animal Form (5A)** – for research involving vertebrate animals that is conducted in a school/home/ field research site.<br>A. Is it properly accomplished, approved and signed by SRC BEFORE experimentation?<br>B. Is it properly accomplished, approved and signed by DESIGNATED VETERINARIAN BEFORE experimentation?<br>C. Is it properly accomplished, approved and signed by DESIGNATED SUPERVISOR OR QUALIFIED SCIENTIST (as applicable) BEFORE experimentation? | | | |
| **11. Vertebrate Animal Form (5B)** – for research involving vertebrate animals that is conducted at a Regulated Research Institution.<br>A. Does it have IACUC approval BEFORE experimentation?<br>B. Is it properly accomplished, approved and signed by a QUALIFIED SCIENTIST/ PRINCIPAL INVESTIGATOR? | | | |
| **12. Potentially Hazardous Biological Agents Risk Assessment Form (6A)** – for research involving microorganisms, rDNA, fresh/ frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.<br>A. Does it have SRC/IACUC/ Institutional Biosafety Committee (IBC) approval BEFORE experimentation?<br>B. Is it properly accomplished, approved and signed by a QUALIFIED or DESIGNATED SUPERVISOR BEFORE experimentation?<br>C. Is it properly accomplished, approved and signed by the SRC BEFORE experimentation?<br>D. Human Vertebrate Animal Tissue Form (6B) – for research involving fresh/ frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids. If research involves living organisms, ensure that the proper human or animal forms are completed. All research using any tissue listed above must also complete Form 6A. Is it properly accomplished, approved and signed by a QUALIFIED or DESIGNATED SUPERVISOR BEFORE experimentation? | | | |

| | | | |
|---|---|---|---|
| 13. Continuation/Research Progression Projects Form (7) – for research that area continuation/progression in the same field of study as previous research.<br>A. This form MUST be accompanied by the PREVIOUS YEAR'S ABSTRACT and RESEARCH PLAN<br>B. Is it properly accomplished, approved and signed by the student/s? | | | |

| **PART 3: RESEARCH PAPER (IMRAD Format)** | **COMPLETE** | **INCOMPLETE** | **RECOMMENDATIONS** |
|---|---|---|---|
| **1. COVER PAGE**<br>A. Is the research title present<br>B. Is/Are the name/s of the student proponent's present<br>C. Is/Are the appropriate persons credited? (The Research adviser and Research Consultants, if applicable MUST be present) | | | |
| **2. INTRODUCTION**<br>A. Does it outline the research question and its significance within the topic discussed, making its relevance clear to readers in a CONCISE manner? | | | |
| **3. METHOD**<br>a. Does it clearly and comprehensively provide the reader with a description of the methods used in the research? | | | |
| **4. RESULTS**<br>A. Does it clearly and comprehensively SHOW the reader what the research came up with? This should be the MAIN section of the paper. | | | |
| **5. DISCUSSION**<br>A. Does this show what the findings in RESULTS mean? | | | |
| **6. LIMITATIONS ON THE RESEARCH DESIGN AND MATERIAL**<br>A. Does this show knowledge and understanding of research limitations? | | | |
| **7. CONCLUSION, NOTES, WORKS CITED AND APPENDICES /BIBLIOGRAPHY**<br>A. Does the conclusion briefly and clearly analyze what the paper proposed, discussed and concluded?<br>B. Is there (in APA format) possible Researcher Notes, the research paper's Works Cited and possible appendices? | | | |

| PART 4: RESEARCH ABSTRACT 250 WORDS (MAX) | COMPLETE | INCOMPLETE | RECOMMENDATIONS |
|---|---|---|---|
| 1. Does it clearly and concisely state the PURPOSE OF THE RESEARCH? | | | |
| 2. Does it clearly and concisely state the PROCEDURE/S undertaken in the RESEARCH? | | | |
| 3. Does it clearly and concisely state the DATA collected from the RESEARCH? | | | |
| 4. Does it clearly and concisely state the CONCLUSIONS OF THE RESEARCH? | | | |

**VERY IMPORTANT: There should be NONE of the following:**
Acknowledgements of the research the student were working institutions and/or mentors with which

a. Self-promotions and external endorsements
b. Inclusion of work or procedures done by the mentor

| PART 5: RESEARCH LOGBOOK | COMPLETE | INCOMPLETE | RECOMMENDATIONS |
|---|---|---|---|
| 1. Is the logbook intact and not tampered with? It should NOT be loose leafed. | | | |
| 2. Does the START DATE in the logbook match the START DATE in Student Checklist (1A)? | | | |
| 3. Does the END DATE in the logbook match the END DATE in Student Checklist (1A)? | | | |
| 4. Are all the entries in the logbook properly dated? | | | |
| 5. Does the logbook show accurate and detailed notes and findings throughout the course of the research? Does it include data tables, and the like? | | | |
| 6. Does the logbook show accurate and detailed description of procedures and processes conducted in the course of the research? | | | |
| 7. Does the logbook show student notes and questions in the course of the research? | | | |

[ ] Qualified [ ] Disqualified [ ] With clarification to local SRC

Reviewed by: _____ Date: _____

Reason/s for Disqualification:_____

SOURCE: SOCIETY FOR SCIENCE

**B. STEM Innovation Expo Screening Form**

| **Title of the Project** | | |
|---|---|---|
| Individual/Team | | |
| Project Proponent/s | | |
| **Criteria** | **Weight** | **Rating** |
| Originality and Creativity | 35% | |
| Community Connection & Impact | 25% | |
| Market Attractiveness | 25% | |
| Utilization of Patent Information | 15% | |
| TOTAL | 100% | |
| Comments: | | |
| _____<br>Signature Over Printed Name<br>Date Signed: | | |

*Entry should obtain a score of 80% to qualify to the NSTF.*

(Enclosure No. 15 to DepEd Memorandum No. 006, s. 2026)

## B. PROJECT EVALUATION FORM

**Title of the Research Project:** _____

**Code:** _____

**Fair Category:** [ ] LS-I [ ] LS-T [ ] PS-I [ ] PS-T
[ ] MCS-I [ ] MCS-T [ ] RIM-I [ ] RIM-T

| CATEGORY | SCORE |
|---|---|
| **CREATIVE ABILITY (30)**<br>1. Does the project show creative ability and originality in the:<br>a. questions asked?<br>b. approach to solving the problem?<br>c. analysis of the data?<br>d. interpretation of the data?<br>e. use of equipment?<br>f. construction or design of new equipment<br>2. Creative research should support an investigation and help answer a question in an original way.<br>3. A creative contribution promotes an efficient and reliable method for solving a problem. When evaluating project, it is important to distinguish between gadgeteering and ingenuity. | |
| **SCIENTIFIC THOUGHT (30)**<br>*(If an engineering project, please see Engineering Goals.)*<br>1. Is the problems stated clearly and unambiguously?<br>2. Was the problem sufficiently limited to allow plausible attack? Good scientists can identify important problems capable of solutions.<br>3. Was there a procedural plan for obtaining a solution?<br>4. Are the variable clearly recognized and defined?<br>5. If controls were necessary, did the student recognize their need and were they used correctly?<br>6. Are there adequate data to support the conclusions?<br>7. Does the finalist/team recognize the data's limitations?<br>8. Does the finalist/team understand the project's ties to related research?<br>9. Does the finalist/team have an idea of what further research is warranted?<br>10. Did the finalist/team cite scientific literature, or only popular literature (e.g. local newspapers, Readers Digest)?<br><br>**ENGINEERING GOALS**<br>1. Does the project have a clear objective?<br>2. Is the objective relevant to the potential user's needs?<br>3. Is the solution: workable? Acceptable to the potential user? Economically feasible?<br>4. Could the solution be utilized successfully in design or construction of an end product?<br>5. Is the solution a significant improvement over previous alternatives or application?<br>6. Has the solution been tested for performances under the conditions of use? | |
| **THOROUGHNESS (15)**<br>1. Was the purpose carried out to completion within the scope of the original intent?<br>2. How completely was the problem covered?<br>3. Are the conclusions based on a single experiment or replication?<br>4. How complete are the project notes?<br>5. Is the finalist/team aware of other approaches or theories?<br>6. How much time did the finalist or team spend on the project?<br>7. Is the finalist/team familiar with scientific literature in the studied field?<br>8. Are the relevant details (including the pages and dates) of the experiment recorded in the research data logbook? | |

| | |
|---|---|
| **SKILL (15)**<br>1. Does the finalist/team have the required laboratory, computation, observational and design skills to obtain the supporting data?<br>2. Where was the project performed (i.e. home, school laboratory, university laboratory) Did the student or team receive assistance from parents, teachers, scientists or engineers?<br>3. Was the project completed under adult supervision, or did the student/team work largely alone?<br>4. Where did the equipment come from? Was it built independently by the finalist or team? Was it obtained on loan? Was it part of a laboratory where the finalist/team worked? | |
| **CLARITY (10)**<br>1. How clearly does the finalist or team discuss his/her/their project and explain the purpose, procedure, and conclusions? Watch out for memorized speeches that reflect little understanding of principles.<br>2. Does the written material reflect the finalist's or team's understanding of the research?<br>3. Are the important phases of the project presented in an orderly manner?<br>4. How clearly is the data presented?<br>5. How clearly are the results presented?<br>6. How well does the project display explain the project?<br>7. Was the presentation done in a forthright manner, without tricks or gadgets? Did the finalist/team perform all the project work, or did someone help? | |
| **Total** | |
| **Signature Over Printed Name of Judge** | |

SOURCE: SOCIETY FOR SCIENCE

(Enclosure No. 16 to DepEd Memorandum No. 006, s. 2026)

**NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)**
**BOARD OF JUDGES - INDIVIDUAL SCORE SHEET**

**PHYSICAL SCIENCE – INDIVIDUAL**

| CODE | RESEARCH TITLE PROJECT | CRITERIA | | | | | TOTAL | RANK |
|---|---|---|---|---|---|---|---|---|
| | | Creative Ability (30) | Scientific Thought (30) | Thoroughness (15) | Skill (15) | Clarity (10) | | |
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(Signature over Printed Name)
JUDGE
Date Signed: _____

(Enclosure No. 17 to DepEd Memorandum No. 006, s. 2026)

**NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)**
**BOARD OF JUDGES CONSOLIDATED SCORE SHEET**

**PHYSICAL SCIENCE – INDIVIDUAL**

| CODE | RESEARCH TITLE | JUDGE 1 | JUDGE 2 | JUDGE 3 | TOTAL | RANK |
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(Signature over Printed Name)
JUDGE 1
Date Signed: _____

(Signature over Printed Name)
JUDGE 2
Date Signed: _____

(Signature over Printed Name)
JUDGE 3
Date Signed: _____

(Enclosure No. 18 to DepEd Memorandum No. 006, s. 2026)

**NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)**
**STEM INNOVATION EXPO - EVALUATION FORM**

| CRITERIA | WEIGHT | RATING |
|---|---|---|
| **ORIGINALITY AND CREATIVITY**<br>• The project developed new theoretical model or frameworks that gives significant contribution in Science.<br>• The project applied the use of existing technology in new and creative ways to solve scientific problems.<br>• The project challenge conventional methodologies | 35% | |
| **COMMUNITY CONNECTION AND IMPACT**<br>• The project creates solutions to address challenges in the community such as food security, agriculture, health, environment, and energy conservation.<br>• The project has immediate significant practical applications. | 20% | |
| **MARKET ATTRACTIVENESS**<br>• The project has strong demands from potential customers and end-users.<br>• The project has high potential for generating substantial revenue and profitability.<br>• The project is aligned with current and future market trends. | 20% | |
| **PROJECT PITCHING**<br>• The project provides clear articulation of the project overview, objectives, and its significance.<br>• The project highlights scientific principles or engineering concepts used. | 15% | |
| **UTILIZATION OF PATENT INFORMATION**<br>• The project is at least applied either online or in-person for patent at the Intellectual Property Office of the Philippines (Provide a copy of application) | 10% | |
| **TOTAL** | **100%** | |

_____
(Signature over Printed Name)
JUDGE

(Enclosure No. 19 to DepEd Memorandum No. 006, s. 2026)

**NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)**

**PROJECT POSTER DISPLAY - EVALUATION FORM**

**PROJECT POSTER DISPLAY CODE:** _____

| CRITERIA | DESCRIPTION WITH CORRESPONDING POINTS | | | SCORE |
|---|---|---|---|---|
| **LOCAL ORGANIZATION OF MATERIAL (35%)**<br>This asseses how well the content is structured and how easily the audience can follow the information. A logical flow of information helps in understanding the project better. | | | | |
| **30-35 points**<br>Exceptional organization of information | **20-29 points**<br>Excellent flow of information but transitions can be improved | **10-19 points**<br>Some organization, but the presentation of information could be improved | **1-9 points**<br>Lack of content, structure, and coherence | |
| **CLARITY OF VISUAL AND ADHERENCE TO THE FORMAT (30%)**<br>This involves clear texts and well-labeled graphics. Legends can significantly enhance comprehension and engagement. The poster adheres to the prescribed format and contains all the needed information. | | | | |
| **25-30 points**<br>High-quality visuals. Graphics enhanced understanding significantly. Poster adheres to the prescribed format and contains all the needed information | **17-24 points**<br>Relevant and easy-to-understand visuals but some can be improved. Some elements do not adhere to the prescribed formate and lacks at most 2 needed information | **9-16 points**<br>Visuals are somewhat clear. Most of the elements do not adhere to the prescribed format and lacks 3-4 needed information | **1-8 points**<br>Visuals are unclear or irrelevant. The poster does not adhere to the prescribed format and lacks more than 4 needed information | |
| **SUPPORTING DOCUMENTATION DISPLAYED (10%)**<br>This involves any relevant supplemantary materials provided alongside the poster. Examples include references, data tables, or detailed figures which add depth and credibility to the presentation. | | | | |
| **9-10 points**<br>Comprehensive and robust supplementary materials which adds depth and credibility to the presentation | **6-8 points**<br>Adequate number of supplementary materials that support the presentation | **3-5 points**<br>Some supplementary materials are irrelevant | **1-2 points**<br>Minimal or no supplementary materials | |
| **INTERVIEW (25%)**<br>The ability of the presenter to articulate and explain their project during an interview is essential. It shows their understanding and ability to communicate their work effectively | | | | |
| **22-25 points**<br>Exceptional interview performance | **15-21 points**<br>Insightful and clear answers and proficient discussion of the project | **8-14 points**<br>Basic understanding of the project | **1-7 points**<br>Inadequate responses or lack of understanding of the project | |
| **TOTAL** | | | | |

_____

(Signature over Printed Name)

JUDGE

Date Signed: _____

(Enclosure No. 20 to DepEd Memorandum No. 006, s. 2026)

**NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)**

**ON-THE-SPOT POSTER MAKING CONTEST - EVALUATION FORM**

**POSTER CODE:** _____

| CRITERIA | DESCRIPTORS WITH CORRESPONDING POINTS | | | | SCORE |
|---|---|---|---|---|---|
| **CREATIVITY AND PRESENTATION (40%)** | | | | | |
| Originality of Concept and Design | 18-20 points<br>Innovative and unexpected approach, demonstrating a fresh perspective | 14-17 points<br>Creative design with some unique elements | 8-13 points<br>Conventional design with minor creativity | 1-7 points<br>Lack of originality; generic design | |
| Visual Appeal, Layout, and Organization | 9-10 points<br>Visually striking, balanced layout, and clear organization | 6-8 points<br>Attractive design, but minor layout issues | 3-5 points<br>Adequte layout, room for improvement | 1-2 points<br>Lacks visual appeal, layout, and organization | |
| Effective Use of Colors, Fonts, and Graphics | 9-10 points<br>Harmonious color scheme, legible fonts fonts, and relevant graphics | 6-8 points<br>Mostly effective use of visual elements | 3-5 points<br>Inconsistencies or poor choices of colors, fonts, and graphics | 1-2 points<br>Clashing colors, illegible texts, or irrelevant graphics | |
| **ORIGINALITY (30%)** | | | | | |
| Uniqueness of Ideas and Approach | 13-15 points<br>Exceptionally fresh and inventive | 9-12 points<br>Uniques ideas, but not groundbreaking | 4-8 points<br>Conventional concepts | 1-3 points<br>Generic or copied ideas | |
| Avoidance of Cliches or Common Themes | 13-15 points<br>Completly avoids cliches | 9-12 points<br>Mostly original points | 4-8 points<br>Some cliches presented | 1-3 points<br>Overly predictable or cliched | |
| **RELEVANCE TO THE THEME (30%)** | | | | | |
| Alignment with the Specified Theme | 13-15 points<br>Clearly and creatively represents the theme | 9-12 points<br>Relevant content, but room for improvement | 4-8 points<br>Partially related to the theme | 1-3 points<br>Theme is not evident | |
| Clear Communication of the Theme through Visuals | 13-15 points<br>Theme effectively conveyed through visuals | 9-12 points<br>Mostly clear communication | 4-8 points<br>Some ambiguity or inconsistency | 1-3 points<br>Theme is poorly communicated | |
| **TOTAL** | | | | | |

_____

(Signature over Printed Name)

JUDGE

Date Signed: _____

(Enclosure No. 21 to DepEd Memorandum No. 006, s. 2026)

**CALENDAR OF IMPORTANT NSTF ACTIVITIES AND REQUIREMENTS**

| Activity | Date | Required documents/ Expected Output | Persons Involved | Venue |
|---|---|---|---|---|
| Actual conduct of NSTF 2026 | March 10-13, 2026 | • Softcopies of the refined projects *for each category.*<br>• Prototypes<br>• Project posters | BCD NTWG<br>Regional delegation<br>BOJs<br>RCs | To be announced |
| *Online Mentoring of* ISEF Finalists | *March 16-27, 2026* | • *Refined softcopy* of the project posters<br>• Updated /Accomplished ISEF Project Board | *BCD STEM* specialists<br>ISEF finalists<br>Project advisers<br>*Research* mentors<br>RCs | *Virtual* platform |
| On-site Mentoring of ISEF Finalists | May 5 – 7, 2026 | • Project poster<br>• Travel documents | BCD STEM specialists<br>ISEF finalists<br>Project advisers<br>Research mentors<br>RCs | To be announced |
| ISEF 2026 | May 9 – 15, 2026 | • Project poster<br>• ISEF Forms<br>• Prototype | | Phoenix, Arizona, USA |

Republic of the Philippines

# Department of Education

OFFICE OF THE UNDERSECRETARY FOR LEARNING SYSTEMS

**MEMORANDUM**
DM-OULS-2026-045

**TO** : **ALBERTO T. ESCOBARTE**
Regional Director
DepEd CALABARZON

**ATTN: REGIONAL SCIENCE AND MATH SUPERVISORS**

**FROM** : **CARMELA C. ORACION**
Assistant Secretary
Officer-in-Charge
Office of the Undersecretary for Learning Systems

**SUBJECT** : **FINALISTS OF THE NATIONAL SCIENCE AND TECHNOLOGY FAIR S.Y. 2025 - 2026**

**DATE** : February 3, 2026

The Department of Education, through the Bureau of Curriculum Development (BCD), congratulates the finalists of the **National Science and Technology Fair (NSTF) S.Y. 2025 - 2026** from the regions. Listed in Table 1 are the projects that successfully met the standards of the National Scientific Review Committee.

Table 1: NSTF Finalists

| REGION CALABARZON | | | | |
|---|---|---|---|---|
| Category | Research Title | School | Proponent/s | Adviser |
| 1. Life Science – Individual | Bioluminescent Papaya: Engineered Gene-Based System for Early Detection Against Papaya Ringspot Virus (PRSV) in Papaya (*Carica papaya L.*) | Batangas Province Science High School | Matthew Emmanuel C. Villanueva | Geralyn A. Alday |
| 1. Life Science – Team | BioVera: A Seawater Soluble PVA–Aloe vera Bioplastic Bag | Gulang Gulang National High School | 1. Zeth Dominic Q. Lacerna<br>2. Kate Angel Eugenie C. Carononga n<br>3. Angelika V. Llaneta | Donna Mae A. Rafa |

| | | | | |
|---|---|---|---|---|
| 2. Physical Science – Individual | EcoCell: Utilization of Coconut (Cocos nucifera) Shell-derived Activated Carbon (CSdAC) and Recycled Brass Wire (RBW) as Potential Electrodes for Galvanic Cell | General Juan Castañeda Senior High School | Aj Maye A. Miralles | Mark Philip A. Echon |
| 3. Physical Science – Team | Aurora: Synthesis and Characterization of Zinc Oxide-Polyaniline (Zno-Pani) Heterojunction Diode on Graphite Electrode with Potential Application as Uv-Responsive Photodiode | San Pablo City Science Integrated High School | 1. Charisse Jaqlyne Mae L. Valencia<br>2. Erra Drew B. Abrenica<br>3. Ralph Asser H. Gapunuan | Franz Kevin B. Manalo |
| 4. Robotics and Intelligent Machines – Individual | ORCA: Ocean Robot and Green Mussel Shells for Coastal Alkalinization in Naic Cavite using ESP-32 | Governor Ferrer Memorial Integrated National High School | Leah Jane G. Gaudiel | 1. Jane Crystal B. Bayas<br>2. Janine Mae M. Descallar<br>3. Patrick C. Lara |
| 5. Robotics and Intelligent Machines – Team | WIVAI: Web-Based Information Verifier Assisted with Artificial Intelligence | Luis Palad Integrated High School | 1. Turiano C. De Ramos IV<br>2. Kient Jharred S. Obeña<br>3. Krisma Beatrice A. Plasuelo | Margaret Elaine E. Calvendra |
| 6. Mathematics and Computational Science – Individual | Project PROPHETΣCH: Probabilistic Spatiotemporal Forecasting of Philippine Rice Pest Outbreaks via Wavelet-Based Image Fusion and Deep Gaussian Processes | Bugarin Integrated National High School | Justin Mark G. Gonzales | Rose-Ann H. Dimasakat |
| 7. Mathematics and Computational Science – Team | REHABITAT: SMART COMPUTER VISION AND COMPUTATIONAL GEOMETRY FOR ANGLE-BASED AUTOMATION OF | San Pablo City Science Integrated High School | 1. Erica Liezl P. Guevarra<br>2. Cassandra Julian L. Gatchalian | Franz Kevin B. Manalo |

| | | | | |
|---|---|---|---|---|
| | POST-STROKE MOTOR FUNCTION ASSESSMENT USING YOLOV11 | | 3. Dwane Lloyd K. Garcia | |
| 8. STEM Innovation Expo – Individual | SISIW: Sensor-Integrated Sex Identification Incubation Window for Philippine Mallard Duck | Rizal National Science High School | Michaela Louise B. Bagtas | Rey Gayheart O. Mesa |
| 9. STEM Innovation Expo – Team | GULUGOD: Pose Projection for Automated Scoliosis Classification and Cobb Angle Quantification Using Machine Learning Algorithm | Rizal National High School | 1. Joeriette C. Coquial<br>2. Eds Johan C. Maycacayan<br>3. Jelaine P. Orain | Edna C. Maycacayan |

The official number of delegates in your region is shown in Table 2.

Table 2: Regional Delegates

| | Number of Official Delegates |
|---|---|
| Regional Director/Assistant Regional Director/ Chief Education Program Supervisor (CLMD/CID)/ Regional Science EPS/ Regional/ Mathematics EPS/ Adult Observers | 7 |
| Student-researchers | 20 |
| Total Number of Official Delegates | 27 |

The official finalists in each category must bring the following during the conduct of the NSTF:

a. A regional shirt for the opening program and formal wear for the project presentation and judging, and awarding ceremony;
b. A display board following the exhibit format; and
c. Endorsement letter signed by the Regional Director.

Additionally, a link to an online drive will be sent to the Regional Science EPS, where the official research entries, regional shoutout videos and the 2x2 photos of the student-researchers shall be uploaded following these filename formats:

**For Shoutout:**
**Region_Shoutout**
(e.g. Region1_Shoutout)

**For 2x2 Pictures:**
**Region_Category code_Researcher's Surname_First name_Middle initial**
(e.g. Region1_PSI_Delacruz_Juan_J)

Travel expenses of the official delegates shall be charged against local funds, subject to the usual accounting and auditing rules and regulations.

Immediate dissemination of the information is highly directed.