



Republic of the Philippines
DEPARTMENT OF EDUCATION
Region III – Central Luzon
SCHOOLS DIVISION OF SAN JOSE DEL MONTE CITY
San Ignacio St., Poblacion, City of San Jose del Monte 3023



September 24, 2018

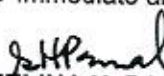
DIVISION MEMORANDUM

No. 1498, 2018

To : Assistant Schools Division Superintendent
Division Chiefs
Public Schools District Supervisors
Elementary and Secondary School Heads
All Others Concerned

2018 DIVISION SCIENCE AND TECHNOLOGY FAIR (STF)

1. This is to announce the conduct of the 2018 Division Science and Technology Fair at Tungkong Mangga Elementary School (TMES) on October 5, 2018 (Friday) 8:00 A. M. onwards.
2. The activity aims to promote Science and Technology consciousness and a culture of innovation among the youth and to identify the most creative and innovative student researchers who shall represent the division in the regional science fair.
3. The Theme of the Division STF is "Creativity and Innovativeness through Science and Technology"
4. Included for competition are the following events:
 - o Science Quiz
 - o Innovation Project
 - o Poster Making
 - o Investigatory Projects
 - o Robotics and Intelligent Machines (RIM)
5. The contest is open to learners who are first place winners of the school level science fair in the public elementary and secondary schools.
6. Pre-registration and inquiries shall be addressed to science.sjdm@gmail.com
7. Travel expense and meals of student-participants shall be charged against School MOOE while meals of teacher-participants and evaluators/judges shall be charged against Division MOOE subject to usual auditing and accounting procedures.
8. The mechanics, criteria, prizes and Events Chair/Focal Persons of the Division STF are indicated in Enclosure No. 1
9. Sportsmanship and good conduct is expected among all participants. Any misbehavior or misconduct shall disqualify the participants from the competition.
10. The decision of the Judges/Evaluators is final and unappealable.
11. Immediate and wide dissemination of this Memorandum is earnestly desired.


GERMELINA H. PASCUAL, CESO V
Schools Division Superintendent

MECHANICS:

Science Quiz

1. The quiz bee is open to all science students from grades 3 to 12 (STEM).
2. Participants must be quiz bee winners from their respective schools.
3. Each grade level will be given a set of questionnaire to answer.
4. Quiz bee items shall be age/grade level appropriate.
5. Number of items and time of answering shall be the same for all grade levels.
6. Test papers shall be checked by assigned facilitators/evaluators.
7. There shall be 5 winners for each grade level.
8. In case of tie, a clincher round shall immediately follow.

Award:

- 1st place -- Certificate and Medal (grade 3 to grade 12)
- 2nd place -- Certificate and Medal (grade 3 to grade 12)
- 3rd place -- Certificate and Medal (grade 3 to grade 12)
- 4th place -- Certificate and Medal (grade 3 to grade 12)
- 5th place -- Certificate and Medal (grade 3 to grade 12)

Poster Making

1. The contest is open to science learners from Junior to Senior High (STEM)
2. Participants must be school level winners of the poster making contest
3. All participants must bring their own ½ size illustration board and the coloring materials of their choice
4. The contest is theme-based and the criteria for judging are as follows:
 - Aesthetics -----25 %
 - Artistry-----25%
 - Relevance to the BE Program and the Theme ----50 %

Total - 100%

Award:

- 1st place -- Certificate and Medal
- 2nd place --Certificate and Medal
- 3rd place Certificate and Medal
- 4th Place—Certificate and Medal
- 5th Place—Certificate and Medal

Investigatory Project (Qualifiers)

1. Only the division qualifiers are eligible to join this contest
2. Copies of the write ups must be provided in advance
3. A Display Board following the prescribed format must be exhibited
4. Criteria for evaluation is tied with Intel-ISEF guidelines

Award:

Elementary

- 1st place -- Certificate and Trophy
- 2nd place -- Certificate and Trophy
- 3rd place -- Certificate and Trophy

Secondary Junior to Senior High(STEM)

1st place -- Certificate and Trophy

2nd place -- Certificate and Trophy

3rd place -- Certificate and Trophy

Innovation Project

1. The contest is open to Junior to Senior High School(STEM) participants, Individual or Team with three (3) members.
2. Write-up reports must be submitted by participants before the Division Science Fair.
3. Product/Invention and display board must be exhibited on the day of the Science Fair.

Format of Invention Report

Invention Report Paper:

Title and table of Contents: the title page and table of contents allows the reader to follow the organization of the paper quickly.

- A. Introduction:
 - 1) Features and specifications- This describes the details of the invention
 - 2) Market Trends and Opportunities- explanation of what the problem will solve and that the invention does not already exist if similar products are on the market, how their invention differs
- B. Materials and Methods: Describe in detail the invention, how it was put together and the steps for replication. Drawings included.
- C. Results and Discussion: Compare the results with available literature and data, Include statistical tools and graphs. Describe control and uncontrolled events if experimentation is conducted
- D. Conclusion: discusses potential applications, customer benefit and Impact in solving issues of today or tomorrow
- E. Acknowledgement: credit to those who assisted including research institutions
- F. Reference/Bibliography: list of reference following Chicago manual

Format of Display Board 38 inches X 48 Inches (Portrait style)

Title	The Title should capture the essence of the product/invention
Picture	Picture of product/Invention
Overview	Problems solved by Invention
Key features	Novelty features of invention
Benefits and impact	Benefits or Impact of Invention to Human beings
Developer's Name	Who is/are members

Criteria for Judging:

Originality and Innovativeness-----30%

Community Connection & Impact.....25%

Functionality and Quality.....25%

Utilization of Patent information.....20%

Award:

1st place -- Certificate and Trophy

2nd place -- Certificate and Trophy

3rd place -- Certificate and Trophy

Robotics and Intelligent Machine (RIM)

1. Participants must pre-register before the competition.
2. On the day of the fair, registration process shall include technical inspection of the entry and marking the robot with a number sticker.
3. The contest is open to all humanoid robots and intelligent machines,
4. Individual or team with a maximum of 3 members may participate.
5. There are no restrictions in height, weight, and in size.
6. The robots can be programmed or remote controlled.
7. The contestants are allowed to:
 - a. adjust sensors
 - b. make repairs in case the robots breaks down.
5. Each contestant will be given 5 minutes to introduce, and present the robots in relation to the concept and ability.

Creativity, Resourcefulness and Innovativeness-----	40%
Coordination / Mastery/Ability of the Intelligent Machine-----	30 %
Relevance to the theme-----	20 %
Presentation/General Appeal-----	10 %
Total:	100%

Award: Category A (Humanoid))

1st place -- Certificate and Trophy

2nd place -- Certificate and Trophy

3rd place -- Certificate and Trophy

Category B (RIM)

1st place -- Certificate and Trophy

2nd place -- Certificate and Trophy

3rd place -- Certificate and Trophy

Special Awards: Medals and Trophy

TECHNICAL WORKING GROUP

Over-all Chair: Esperanza D. Espanola, EPS-I

Program Chair: Flordeliza Limon, School Head TMES

Events Chair:

Amalia Fernandez- Quiz Bee

Sotera Nieto- Robotics

Teresita Gojo Cruz- Poster making

Mary Ann Salapong - Innovation Project

Evangeline Estabaya- Investigatory Project