



Republic of the Philippines
Department of Education

REGION IV-A

SCHOOLS DIVISION OFFICE OF CAVITE PROVINCE

February 8, 2021

DIVISION MEMORANDUM

NO. 037, s. 2020

TO: OIC, Assistant Schools Division Superintendents
Chief, CID and SGOD
Education Program Supervisors
Public School District Supervisors
Public Elementary and Secondary School Heads
All concerned

CONDUCT OF VIRTUAL DIVISION SCIENCE AND TECHNOLOGY FAIR

1. Pursuant to the Implementation of the Department of Education's Special Programs and Project for the school year 2020-2021, the Department of Education — Cavite Province, through the Curriculum Implementation Division will conduct the Virtual Division Science and Technology Fair on March 8-12, 2021.
2. The competition aims to:
 - Strengthen students' learning performance through academic competitions;
 - Showcase learners' knowledge and skills in all Science, technology, and Research.
 - Strengthen and upgrade the learners' level of competence and confidence in facing life's challenges;
3. The expected participants to this activity are those from SSES and STE-implementing schools as well as the regional science high school. Those from the regular K to 12 Curriculum are highly encouraged to join.
4. The participation of schools in the DFOT shall be clustered into four major categories: Life Science, Physical Science, Robotics & Intelligent Machines, and Science Innovation Expo (SIE). These major categories are further classified into subcategories: Individual and Team.
5. All entries shall undergo review and validation of the Scientific Review Committee of the division. Only entries approved by the Division SRC will proceed to the Oral Defense of the competition.
6. In preparation for the said event, there will be a meeting of Technical Working Committee on February 15, 2021, 9:30 AM via google meet.



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7. Enclosed are the Division Guidelines, Program of Activities and Working Committees.
8. Widest dissemination of this Memorandum to all concerned is highly desired.

ROMMEL C. BAUTISTA, CESO V
Schools Division Superintendent

RDS/ DM No. 037 s.2021
020921-037/ 02/08/2021



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Enclosure to Division Memorandum No. 037, s. 2021 titled Conduct of Virtual Division Science and Technology Fair

Division Science and Technology Fair (DSTF) Guidelines

(Adopted from the NSTF 2019 AND 2021 ISEF Guidelines)

The competitions will be conducted among Elementary, Junior and Senior High School students from public schools within the Division of Cavite Province. The first-place winners on each category will represent the division in the upcoming Regional Science and Technology Fair as approved by the Regional Scientific Review Committee.

The participation of schools in the DFOT shall be clustered into four major categories: Life Science, Physical Science, Robotics & Intelligent Machines, and Science Innovation Expo (SIE). These major categories are further classified into subcategories: Individual and Team.

Level	Category	No. of Students
Elementary	Life Science (Individual)	1
	Life Science (Team)	3
	Physical Science (Individual)	1
	Physical Science (Team)	3
	Science Innovation Expo (Individual)	1
	Science Innovation Expo (Team)	3
Junior High School	Life Science (Individual)	1
	Life Science (Team)	3
	Physical Science (Individual)	1
	Physical Science (Team)	3
Senior High School	Life Science (Individual)	1
	Life Science (Team)	3
	Physical Science (Individual)	1
	Physical Science (Team)	3
Junior and Senior High School	Robotics and Intelligent Machines (Individual)	1
	Robotics and Intelligent Machines (Team)	3
	Science Innovation Expo (Individual)	1
	Science Innovation Expo (Team)	3



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The Science Fair

The STF aims to promote Science, Technology, and among the youth. It is open to Elementary, Junior High School and Senior High School students who are studying in the public schools within the Division of Cavite Province.

Requirements for Life Science, Physical Science and Robotics and Intelligent Machines Projects:

Requirements:	Additional Forms:
Research Plan	
ISEF Forms <ul style="list-style-type: none">Form 1 (Checklist for Adult Sponsor)Form 1A (Student Checklist)Form 1B (Approval Form)	<input type="checkbox"/> Form 1C (Regulated Research Institutional/Industrial Setting Form) <input type="checkbox"/> Form 2 (Qualified Scientist Form) <input type="checkbox"/> Form 3 (Risk Assessment Form) <input type="checkbox"/> Form 4 (Human Participants Form) <input type="checkbox"/> Form 5A (Vertebrate Animal Form) <input type="checkbox"/> Form 5B (Vertebrate Animal Form)
ISEF Abstract (Max. 250 words)	<input type="checkbox"/> Form 6A (Potentially Hazardous Biological Agents Risk Assessment Form)
Research Paper/Manuscript (Chicago Format)	<input type="checkbox"/> Form 6B (Human and Vertebrate Animal Tissue Form)
Project Data Logbook	<input type="checkbox"/> Form 7 (Continuation/Research Progression Projects Form)
5 to 10-Minute Video Presentation	<input type="checkbox"/> IACUC Form

The Division Science Supervisor shall be a member of the BOJ who shall determine the division winners of the different categories and fair divisions.

Entries of each school level shall be officially endorsed to the division office for the division level by the school head. Likewise, the division-level winners shall be officially endorsed to the regional office by the Division Education Program Supervisor.

Entries at the district level in the elementary and school level in the secondary shall be scrutinized by the Division SRC before qualifying to the DFOT.

The official list of the participants at the school level, soft copies of the manuscripts, project data logbook, and ISEF abstract, ISEF forms must be submitted to the Division SRC for checking and validation via Google Forms:





<https://forms.gle/Ftjw4RZRohhFi3eH8>

Endorsement template can be downloaded here:

https://drive.google.com/file/d/17yM9C_9WaR0iaK4TtZ6Y0PRTuwKU_HVw/view?usp=sharing

Deadline of submission is on February 19, 2021.



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Division Science Innovation Expo

This category is designed to promote the products and innovations made by students that could help in solving life challenges.

Format of Paper Invention Report:

- a. Title Page and Table of Contents: The title page and table of contents allows the reader to follow the organization of the paper quickly.
- b. Introduction:
 - Features and Specifications – It describes the details of the invention or product.
 - Market Trends and Opportunities – It includes the following: 1. What inspired to develop the invention; 2. Explanation of what problem the invention will solve; and 3. Describe in detail how the originality of the invention or innovation was determined. It must also discuss the products already existing in the market and its differences to the proposed product.
- c. Materials and Methods: Describe in detail how the product was made including the materials used and the procedures followed in creating the product.
- d. Results and Discussion: It includes the discussion of the results supported by theoretical values, published data, literature, and related studies. The data can be represented by tables, graphs, and charts.
- e. Conclusions: It discusses the potential applications, potential benefits, and the potential impact of the product in solving real-life problems.
- f. Acknowledgments: Credit the individuals, businesses, and educational or research institutions who assisted in making the product.
- g. References/Bibliography: It must be written based on the Chicago Manual of Style. Visit the following websites for more information:
<https://www.chicagomanualofstyle.org/home.html>
<https://www.calvin.edu/library/knightcite/index.php>

In Elementary level, participants must join the District-based Science Fair and win first place before competing in the Division Festival of Talents. However, if a district level science fair is not conducted, the Science key Administrator of the district may endorse the official entries.

Each district can have at most 2 entries per category - one entry of which should be an SSES-implementing school and another - a regular elementary school.

Each entry from the Elementary level must be composed of student/s and coach from the same school.



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Recommended Timeline for Research Fairs

ELEMENTARY	TIMELINE	SECONDARY
District-based Science Fair	1st Quarter	School-based Science Fair
District-based Cliniquing		School-based Cliniquing
Division Festival of Talents in Science	2nd Quarter	Division Festival of Talents in Science
Division Cliniquing of DFOT Winners to RSTF		Division Cliniquing of DFOT Winners to RSTF
Regional Science and Technology Fair	2nd or 3rd Quarter	Regional Science and Technology Fair
Regional Cliniquing of RSTF Winners to NSTF		Regional Cliniquing of RSTF Winners to NSTF
	4th Quarter	National Science and Technology Fair
	Summer	National Cliniquing of NSTF Winners to ISEF
	Summer	International Science and Engineering Fair

PROGRAM MANAGEMENT TEAM





ELPIDIA B. BERGADO, EdD
Chief, CID

Planning

Riza D. Soberano
EPS, Science
Chairperson

PSDS Irma O. Ejanda
PSDS Elsa O. de Leon
PSDS Rey M. Guansing
Co-chairpersons



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Secretariat	Marissa M. Rodil Marlene M. Irog
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Scientific Review Committee Members

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John Edsel A. Varias	Irma O. Ejanda
Ryan S. Cutamora	Elsa O. de Leon
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