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Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF DIGOS CITY

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

DIVISION MEMORANDUM
No. 442, s. 2022

July 8, 2022

**Attendance to the Regional Science and Technology Fair 2022
Awarding and Closing Ceremony**

To: Curriculum Implementation Division Chief
Public Schools District Supervisors
School Principals/Officers-in-Charge
Public Secondary Schools

- In reference to Regional Memorandum entitled "Regional Science and Technology Fair 2022" dated May 6, 2022, the Department of Education Region XI Office through the Curriculum and Learning Management Division (CLMD) will conduct the Regional Science and Technology Fair (RSTF) for the School Year (SY) 2021-2022 with the theme "Expanding the Horizon: Futures of STEM" via hybrid modality.
- The culmination and awarding ceremony for the RSTF 2022 will be held at the Ritz Hotel at Garden Oasis, Porras Street, Bo. Obrero, Davao City on July 11, 2022 from 9:00 a.m. to 4:00 p.m.
- The participants to the RTSF 2022 culminating activity are the top 5 winners in the Regional Competition and the Robotics Exhibition Participant with the coaches, to wit:

Event	Name of Students	Coaches	School
Likha (LS -T)	Harold Aaron C. Barrios, Kyrce Lougee M. Mantilla, Christian E. Villanueva	Maricel A. Manceras	DICNHS
Likha (PS -T)	Jose Romer B. Lascaña, Kristiane Josh R. Gubatan, Isaac Webster Ewhart G. Gloria	Jean W. Hernan	DICNHS
Likha (RIM-I)	Kurt Achelis V. Declaro	Kim G. Dela Cruz	DICNHS
Likha (RIM-T)	Vezye BP Rasedy M. Sayon, Gretchelene J. Abad, Aizzle Joyce P. Cabaobao	Kim G. Dela Cruz	DICNHS
Likha (RIM-T)	Psalm R. Pancho, Karl Nicoli S. Pelletero, Rae Austin S. Alcular	Kim G. Dela Cruz	DICNHS
Likha (MCS-T)	Marie Cuar P. Acojedo Alraffy B. Pacalna Novey Joy S. Hijapon	Glent Ian Delima	DICNHS
#STEMTokperiments (SHS)	Cynthia D. Joyce	Miraluz Siase	SHS in Digos City
Robotics Game Exhibition	Lelly Joan S. Demanawa	Kim G. Dela Cruz	DICNHS

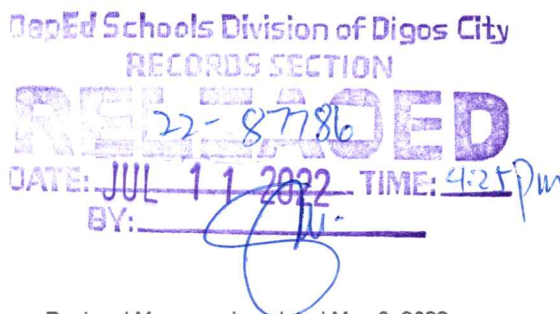




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4. In addition, the Assistant Schools Division Superintendent is asked to also attend in the said activity.
5. Food for the participants during the culmination and awarding ceremony shall be charged to Regional Funds while travel and other incidental expenses shall be charged to Schools/SDO local funds/MOOE or other sources of funds, all subject to the usual accounting and auditing rules and regulations.
6. For information, guidance, and compliance.




CRISTY C. EPE
Schools Division Superintendent
8

Encls: Regional Memorandum dated May 6, 2022,
Regional Memorandum-CLMD-2022-139

References: Regional Memorandum dated May 6, 2022
Regional Memorandum-CLMD-2022-139

To be indicated in the Perpetual Index under the following subjects
CURRICULUM SCIENCE/MATHEMATICS COMPETITION
lby; Attendance to the Regional Science and Technology Fair 2022 Awarding and Closing Ceremony
8 July 2022





Republic of the Philippines
Department of Education
DAVAO REGION

Office of the Regional Director

REGIONAL MEMORANDUM

CLMD-2022-139

To : Schools Division Superintendents

Subject: TOP FIVE (5) WINNERS OF THE REGIONAL
SCIENCE AND TECHNOLOGY FAIR 2022
IN ALL EVENTS PER CATEGORY

Date : July 8, 2022

In relation to the hybrid conduct of the Regional Science and Technology Fair (RSTF) 2022 which started last June 25, 2022, this Office announces the top five (5) winners in all events per category.

The culmination and awarding ceremony for the RSTF 2022 will be held at the Ritz Hotel at Garden Oases, Porras Street, Corner Ignacio Villamor Street, Barrio Obrero, Davao City, from 9:00 AM to 4:00 PM. All top five (5) winners, coaches, and participants in the robotics exhibition game are advised to attend.

Additionally, Assistant Superintendents of the Schools Division are asked to attend in the said activity.

Enclosed are the list of the top five (5) winners, participants of the robotics exhibition game, mechanics of enhanced robotics exhibition game and the format of the display poster for the *Likha*.

Food of the participants shall be charged to Regional Funds while travel and other incidental expenses of the participants shall be charged to Schools Division Offices' local funds/MOOE/ or other sources of funds, all subject to the usual accounting and auditing rules and regulations.

Immediate and wide dissemination of this Memorandum to the concerned is desired.

ALLAN G. FARNAZO
Director IV

Enclosure: As stated
ROC6/mlib



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Enclosure

Likha – Life Science Category (Individual)

Entry Code	Title of Study	Student	Coach	School	Division
LS-I-03	Larvicidal Activity Of Tubli (Derris Elliptical) Root Extract On The Growth And Development Of Aedes aegypti MOSQUITO LARVAE	Charlene May Arquio	Rheider Jan T. Bartolini	Sta. Cruz National High School	IGACOS
LS-I-10	In Vitro Antifungal Activity of Eleusine indica (Paragis) against Colletotrichum gloeosporioides (Anthracnose) in Mango	Frences Ann B. Villamor	Kristile Mae P. Pansoy	"Tagum City National High School"	Tagum City
LS-I-11	Testing the Anticoagulant Activity of Gotu Kola (Centella asiatica), Oregano (Origanum vulgare), and Talisay (Terminalia catappa) Ethanolic Leaf	Manulat, Allizah Keziah M.	Dinah G. Oani	Davao City National High School	Davao City



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	Fusarium oxysporum f. Sp. Cubense: An In Vitro and In Vivo Test				
LS-T-018	Antimycobacterial Screening of Mikania Micrantha Leaf and Stem Extracts against Multi-Drug Resistant Tuberculosis	Ira Marie J. Lambojon, Shine F. Miranda, Theresa Christina L. Pasquito	Kristille Mae P. Sanoy	Tagum City National High School	Tagum City
LS-T-019	"Potency of Allium Cepa (Red Onion) Tunic Ethanoic Extract as Natural Antifungal Cause Fusarium Wilt"	Ayramae B. Bicol, Reyhan Jay M. Uyanguren	Aladen S. Varquez	Don Marcelino National High School	Davao Occidental

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	Bangus Wastes				
PS-I-11	The Effectiveness of the Developed Wind Speed Sensor Device Sending Warning Messages to Programmed Numbers	Shamelie Angel B. Galigao	Lorie Mae A. Babiera	Davao Oriental RSHS	Mati City

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	Admixture: A Novel Consortia Engineering Approach Evaluating Rheological Properties, and Photocatalytic Performance in Cement in UHPC (Ultra-High Performance Concrete)				
PS-T-18	Rice (<i>Oryza sativa</i>) Hydro-Powered Bin Dryer	Jose Romer B. Lascaña Isaac Webster Ewhart R. Gloria Kristiane Josh R. Gubatan	Jean W. Hernan	Digos City NHS	Digos City
PS-T-19	Production of Chitosan Film Synthesized from <i>Lentinula edodes</i> for Food Packaging Application	Nicole I. Diamante Kenneth John Laurence Jabines Samantha Nicole Villado	Krystille Mae P. Sanoy	Tagum City NHS	Tagum City

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	Automated Vertical Hydroponic System			Science High School	
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Likha – Robotics and Intelligent Machines (Team)

Entry Code	Title of Study	Student	Coach	School	Division
RIM-T-01	"Towards a More Sustainable and Resilient Agriculture: Exploring the Performance and Efficiency of the Approach to Detecting and Classifying Mango Leaf Disease Using Artificial Intelligence Vision Technique"	Mc Rheneli R. Antigua, Alyzza Joy D. Hollanes, Bea Stephanie C. Padilla	Engr. Joel A. Calledo	Davao City National High School	Davao City
RIM-T-06	"Arduino-Based Localized Data Logger System For Hydro-Related Hazard With Wireless Mesh Networking"	"Erl John Lurenz A. Toledo James P. Fernandezlo Wee Jay T. Perez"	Michael Canakan	Lupon National Comprehensive High School	Davao Oriental
RIM-T-08	Arduino Automated Rubber Sap Container	Vezlye BP Rasedy M. Sayon, Gretchelene J. Abad,	Kim G. Dela Cruz	Digos City National High School	Digos City



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Likha – Mathematics and Computational Sciences (Individual)

Entry Code	Title of Study	Student	Coach	School	Division
MCS_I_08	The Legend Of The Seeker (TLS): An Android-Based Educational 3D App for Upper Secondary Education in DCNHS through the Amalgamation of Gamification and Augmented Reality	Eriquer Anne Q. Arcamo	Engr. Joel A. Caledo	Davao City National High School	Davao City
MCS_I_01	"Mitscherlich Formulation of Trichoderma harzianum as a Medium for Biodegradable Waste in Organic Fertilizer Production"	Franchesca Khlea L. Evangelista	Dorothy Fe A. Ranis	Sto. Tomas National High School	Davao del Norte
MCS_I_06	"Risk Analysis and Value Maximization in Candlestick Patterns to Avoid	Louie Ayade	Jeane Eloise B. Palen	Tagum City National High School	Tagum City



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Likha – Mathematics and Computational Sciences (Team)

Entry Code	Title of Study	Student	Coach	School	Division
MCS_T_11	"MAHUSAI: a Mobile Application for Corn (Zea mays), Rice (Orzya sativa), and Banana (Musa sp.) Disease Identification using Machine Learning of Visual Symptoms and Image Processing Techniques"	Christian Rex Dagondon, Jimboy Donasco, Hiroyuki Singson	Jeane Eloise B. Palen	Tagum City National High School	Tagum City
MCS_T_01	Development of an Android Mobile Application for Carbon Footprint Monitoring	Roseven Angela Calupe, Anna Jocelli A. Gomez, Precious Janiell A. Sillacay	Engr. Joel A. Calledo	Davao City National High School	Davao City
MCS_T_08	FV (Finger Visualization) Multiplication Technique on Two-digit Numbers with Similar Tens Digits	"Phoebe Love C. Bio Joshiah Glenn P. Nanong Karla Blessy Faith P. Manligoy"	Lloyd U. Andress	Davao Oriental Regional Science High School	Mati City Division
MCS_T_02	Simplified Markov Chain: An	Xander Jay C. Cagang, Maria	Paulo D. Prudente	Daniel R. Aguinaldo	Davao City



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SIYENSIKULA

Entry Code	Title of Study	Student	Coach	School	Division
SS02	Antibiotic Resistance	Krisceline Joy G. Tindoy	Jether D. Ortega	Mariano Peralta National High School	Davao Occidental
SS16	Global Warming- Ano ba ito?	Thessa Angela E. Floro	Christian Adalim	Panabo City NHS	Panabo City
SS17	The Thief of Souls	Anne Beatrice A. Pelegrino	Norilyn M. Rollon	Tagum City National High School	Tagum City
SS18	Genesis the Origin of Elements	Sophia Marie Coquilla	John Van Dave T. Taturro	La Filipina National High School	Tagum City
SS19	mRNA Vaccines Against COVID-19	Leo Angelo Mari A. Hebulario	Paulo D. Prudente	Daniel R. Aguinaldo National High School	Davao City

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**Regional Robotics Exhibition
Line Tracing Competition
July 11, 2022**

Updated List

No.	SDO	School	Student	Coach
1	Davao City	Davao City NHS	Francheska Lorraine B. Suarez	Arnold P. Remulta
2	Davao del Sur	Sta. Cruz NHS	Angela B. Veneracion	Leslie B. Veneracion
3	Davao Oriental	Baganga NHS	Jay Gabriel Sangcopan	Janjelou V. Siarot
4	Panabo City	Panabo NHS	Louise Carlo Salomon	Angelie Joy Portes
5	Tagum City	Tagum City NHS	Raphael Jake Murillo Caasi	Audrey A. Claren
6	Digos City	Digos City NHS	Lelly Joan S. Demanawa	Kim G. Dela Cruz
7	Davao de Oro	Nabunturan NHS	John Mathew P. Cabuga	Jovelyn A.Tubay
8	Davao del Norte	Sto. Tomas NHS	Dan Loess Antoine Malon	Jesninieta Dolormente
9	IGACOS	Nieves Villarica NHS	Al Kenre Baban	Alwyn B. Demeterio
10	Davao Occidental	HeracleoCascoMNHS	Cristy Amor C. Tiquio	Frede Ann F. Cabusas
11	Mati City	DORSHS	Arrielle M. Pichon	Reward H. Dizon



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Line Tracing Sample Scoring

No.	SDO	School	Schedule	1st Run	No. of Touches +2 seconds	2nd Run	No. of Touches	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Mechanics of Fastest Robot Building Competition

1.0. Start

- 1.1 The Maqueen Plus V2 robot will be used in this competition.
- 1.2 This Maqueen Plus V2 robotics kit is not the same as the kit to be used for line tracing.
- 1.3. Each participant must have a screwdriver and other necessary tools.
- 1.4 Maqueen Plus V2 robotics parts must be prepared.
- 1.5. Motors must not be detached from the frame for safety and to avoid technical problems.
- 1.6. Install a line tracing program in the robot before the start of the competition so that the judge can test it works after it has been assembled.

2.0 Scoring

- 2.1. The fastest time to build the robot will be the final score.
- 2.2 The assembled robot that will not follow the line tracing tarp after it is assembled will automatically be disqualified for the ranking of the score.



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