



Republic of the Philippines  
Department of Education  
Region III  
**SCHOOLS DIVISION OF BULACAN**

June 27, 2022

**DIVISION MEMORANDUM**

No. 212, s. 2022

**WINNERS IN THE DIVISION SCIENCE AND TECHNOLOGY FAIR 2022**

To : Division Chiefs  
All Public Secondary School Heads  
All Others Concerned

1. The Department of Education Schools Division of Bulacan, through the Curriculum Implementation Division, announces the Winners in the *Division Science and Technology Fair 2022* virtually held last June 7-9, 2022.
2. The DSTF 2022 online competitions included **Siyensikula**, **Likha**, and **#STEMtokperiments** for junior and senior high schools.
3. Except for the top 2 entries of **Siyensikula**, the ranked 1 for each category were declared as regional qualifiers and have represented the Schools Division in the Regional Science and Technology Fair 2022 on June 27-28, 2022.
4. All winning entries shall receive digital certificate of recognition and certificate of participation while the non-winning entries shall receive digital certificate of participation. The link to the Google drive is <https://tinyurl.com/2022dstfcert>.
5. Attached is the official list of winners in all categories of competition.

  
**ZENIA G. MOSTOLES, EdD., CESO V**  
Schools Division Superintendent

Incl.:

List of DSTF 2022 winners

Reference:

Division Memo no. 166, s. 2022





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**A. SIYENSIKULA WINNERS**

Rank	Title of Entry	Participant	Coach	Name of School
1	The Higgs Field	Czyrille Jeztine M. Carpio	Lady Maru N. Vergara	Prezza National High School
2	Buoyancy	Mark Ezekiel P. Samonte, Jan Louivic N. Bariquet, Angela C. Dionisio	Precious V. Bernabe	San Rafael National Trade School
3	Quantum Entanglement and Spooky Action at a Distance	Marie Franz B. Reyes	Lady Maru N. Vergara	Prezza National High School
5	Tick Tock: quantum Atomic Clock and Wave Sound	Edwin D. Mejia Jr.	Lady Maru N. Vergara	Prezza National High School
5	Only Your Body Will Tell- Circadian Rhythm	Kimberly Macabangon, Fiona Kaye Molod and Joshua Arfer Monilla	Remedios Y. Ramos	Prezza National High School
5	Internet Packets: The Mystery Behind Online Classes	Sean Eldric D. Salimbao	Farrah M. Ramos	San Miguel National High
7.5	Gene Mutation	1. Alyssa Corinne S. Cruz 2. Yuan Miguel D.G. Macaraeg 3. Melissa R. Tagob	Glenn S. Mendoza	Aguinaldo J. Santos National High School
7.5	Antimatter	Kate Tiffany S. Del Rosario	Farrah M. Ramos	San Miguel National High
9	Reproductive Cloning	Jhasmine Coleen S. Cruz Adrian S. Cunanan Angelika C. Rovelo	Glenn S. Mendoza	Aguinaldo J. Santos National High School
10	To your body and beyond: Cellular Respiration	Renz Raphael Manalo, Eryka Rose Manabat, Emmanuel Christian Reyes	Arthur F. Barrientos	Carlos F. Gonzales High School





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**B. SIYENSIKULA PEER-TO-PEER REVIEW WINNERS**

Rank	Title of Entry	Participant	Coach	Name of School
1	The Higgs Field	Czyrille Jeztine M. Carpio	Lady Maru N. Vergara	Prenza National High School
2	Tick Tock: quantum Atomic Clock and Wave Sound	Edwin D. Mejia Jr.	Lady Maru N. Vergara	Prenza National High School
3	Physics In Daily Life	Eunice Jewell C. Rosalita	Lea Rose A. Sabas	Fortunato F. Halili National Agricultural School
4.5	Buoyancy	Mark Ezekiel P. Samonte, Jan Louivic N. Baniquet, Angela C. Dionisio	Precious V. Bernabe	San Rafael National Trade School
4.5	Quantum Entanglement and Spooky Action at a Distance	Marie Franz B. Reyes	Lady Maru N. Vergara	Prenza National High School
6	Internet Packets: The Mystery Behind Online Classes	Sean Eldric D. Salimbao	Farrah M. Ramos	San Miguel National High
7	Cloning: Exploring the World of Replica	Althea Shanley B. Bognalbal and Abigail Joy M. Calison	Remedios Y. Ramos	Prenza National High School
8.5	Only Your Body Will Tell- Circadian Rhythm	Kimberly Macabangon, Fiona Kaye Molod and Joshua Arfer Monilla	Remedios Y. Ramos	Prenza National High School
8.5	Reproductive Cloning	Jhasmine Coleen S. Cruz Adrian S. Cunanan Angelika C. Roveló	Glenn S. Mendoza	Aguinaldo J. Santos National High School
10	Antimatter	Kate Tiffany S. Del Rosario	Farrah M. Ramos	San Miguel National High





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**C. #STEMtokperiments for JUNIOR HIGH SCHOOL**

Rank	Title of Entry	Participant	Coach	Name of School
1	Lava Lamp Magic	Lian Chariz V. Evangelista	Jayson B. Eugelio	Carlos F. Gonzales High School
2	DNA Extraction	Elyza N. Dimaapi	Edna A. Antonio	Mariano Ponce National High School
3	To Burn Or Not To Burn	Miracle D. Rubio	Lemmie G. Coronel	Obando National High School
4	Tea Light Candle Turbine	Harriet Denise E. Sagum	Aldrin I. Bautista	Mariano Ponce National High School
5	Science Time	Faye Ann A. Caño	Katherine V. Arana	San Idefonso National High School
6	Stimulating Volcanic Eruption	Almira Hazna P. Maniego	Teofila P. Nolasco	Mariano Ponce National High School
7	The Effect of Cigarettes to Human Lungs	Sophia Marchelle E. Menor	Jacqueline J. Bartolome	Calumpit National High School
9	Fire Tornado	Kyllie Andrea V. Nebres	Sherilaine B. Valerio	Angat National High School
9	Stimulating Volcanic Eruption	Lhaizelle Airambhelle R. Dela Merced	Teofila P. Nolasco	Mariano Ponce National High School
9	A Clot on the Dot	Kisha Denil E. Siao	Maricel D. Cruz	Calumpit National High School





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**D. #STEMtokperiments for SENIOR HIGH SCHOOL**

Rank	Title of Entry	Participant	Coach	Name of School
1	Catch a Fire	John Allison Sanchez	Enrico S. Domingo	Prenza National High School
2	Always Spread Your Light!	Jan Louvic N. Baniquet	Precious V. Bernabe	San Rafael National Trade School
3	Blow It With Science!	Angela C. Dionisio	Precious V. Bernabe	San Rafael National Trade School
4.5	The Resistance Board	Lara Denisse J. Silvestre	Lady Maru N. Vergara	Prenza National High School
4.5	Burning Calorie	Chestea Mia Izabell B. De Guzman	Marco L. Sison	Carlos F. Gonzales High School
6	Color Changing Water Experiment	Lei Maxene DJ. Espiritu	Marco L. Sison	Carlos F. Gonzales High School
7	Single Panel Hologram	Justin G. Jimenez	Leandro Ian B. Santiago	San Rafael National Trade School
8	Fireball Experiment	John Daniel M. Quiambao	Leandro Ian B. Santiago	San Rafael National Trade School
9	A Stand-Up Egg	Genina C. Santos	Leandro Ian B. Santiago	San Rafael National Trade School
10	The Imposter	Mark Eugene S. Mariñas	Marco L. Sison	Carlos F. Gonzales High School





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**E. LIKHA**

Category	Rank	Title of Entry	Participant	Coach	Name of School
Life Science Individual	1	Effect of Rabbit Manure and Chicken Manure on the growth of Mustasa Green ( <i>Brassica juncea</i> )	Dann Emmanuel M. Felipe	Bernadette E. Hipolito	San Miguel National High School
	2	The Toxicity Effect of <i>Averrhoa bilimbi</i> , <i>Cymbopogon citratus</i> and <i>Capsicum frutescens</i> to <i>Periplaneta americana</i>	Julia Dorren F. Carmona	Espy S. Balbuena	Assemblywoman Felicita G. Bernardino Memorial Trade School
	3	Effectivity of Aloe Vera Gel as an Edible Coating for Preserving and Prolonging the Shelf Life of Tomato	Mark John C. Esguerra	Nimpha F. Miclat	Frances National High School
	4	The Use of <i>Citrus sinensis</i> Peels as Isoptera Killer	Marian Ursula R. Hilario	Espy S. Balbuena	Assemblywoman Felicita G. Bernardino Memorial Trade School
	5	White Vinegar as Mosquito Repellent	Janine R. Lorenzo, Nathalie G. Larosa, Precious De Asis, Loueisse F. Belarmino, Ivy A. Espelita, Ronald L. Cruz, Jefferzon M. Miranda	Lea Rose Sabas	Fortunato F. Halili National Agricultural School
Life Science Team	1	Biofungal Poultry Odor Control: A Potential Agricultural Use of <i>Ceratocystis fimbriata</i>	Gabriela M. Maligaya Charles Asher M. Mariano Luzadell Julian C. Imperial	Bernadette E. Hipolito	San Miguel National High School
	2	Taro ( <i>Colocasia esculenta</i> ) Starch- Based Edible Film Enriched With Guava Leaf Extract	Krizel Airies M. De Jesus, Margarete Claire S. Anez, Finnella Erica C. Piadozo	Corazon U. Apoderado	San Miguel National High School
	3	Allelopathic Response of Medicinal Plant <i>Catharanthus roseus</i> on the Germination of Mung Bean	Jeulia B. Dimacali, Janelle Gian B. Mendoza, Ma. Danice P. Villanueva	Espy S. Balbuena	Assemblywoman Felicita G. Bernardino Memorial Trade School
	3	Atis ( <i>Annona squamosa</i> ), and Guyabano ( <i>Annona muricata</i> ) Leaves Extract as Head Lice Killer	Gwyneth Myles D. Villarama; France Reiven B. Martin; Erica Inoncillo	Leandro Ian B. Santiago	San Rafael National Trade School
	3	Oregano ( <i>Origanum Vulgare</i> ) Essential Oil Candle: An efficient alternative in the Repellency of Mosquitoes	Zephanaih T. Santos, Jacquelyn P. Perez, John Eron De Leon	Nimpha F. Miclat	Frances National High School





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Physical Science Individual	1	Potential Use of Luffa ( <i>Lugga aegyptiaca</i> ) Coconut Coir ( <i>Cocos nucifera</i> ), and Coffee Filter for Biodegradable Face Mask Production	Charlene J. Fernandez	Rachelle S. Viñas	San Miguel National High School
	2	Potential use of Spiny Amaranth ( <i>Amaranthus spinosus</i> ) as Phytoremediator of wastewater through Hydroponics System	Jilin Lue L. Juarez	Farrah M. Ramos	San Miguel National High School
Physical Science Team	1	Biomimetics Application of <i>Hibiscus tiliaceus</i> Linn Extract as Green Surface Protectant on Metal Alloys	Zyrell M. Blazo, Patricia Ann M. Balbas, Clark Kent P. De Jesus	Geraldine C Añasco	Prenza National High School
	2	Coconut Leaf Fiber Fortified Bricks With Polyethylene-Polystyrene Plastic Composite	Richard Louie P. Lamorena, Carmel Therese M. Manongsong, Ma. Louies A. Manalastas	Farrah M. Ramos	San Miguel National High School
	3	VAUTOMI (Improvised Automatic Misting Machine	Shane Loryn Silvestre, Jvie Nicole Pineda, Frhiza Gubato	Jonalyn V. Maniquiz, Bomifacio Dela Cruz	Vedasto R. Santiago High School
Robotics & Intelligent Machines Individual	1	Project Wh <sup>2</sup> eels (Wheelchair: Help Provider and Health Examiner with Efficient Locator System)	Shane Vital	Espy S. Balbuena	Assemblywoman Felicita G. Bernardino Memorial Trade School
Robotics & Intelligent Machines Team	1	Project I.W.A.S. (Innovative Health Tracker with Anti-COVID 19 Sanitation System)	Goichi A. Noda, Angelica Mae B. Agbayani, Berna Marie A. Toñacao	Espy S. Balbuena	Assemblywoman Felicita G. Bernardino Memorial Trade School
	2	Project AKBAY: Arduino-Based Robot Key to Better Metacarpal Movements Assistive System	Mikaela Jane L. Fajardo, Edwin D. Mejia Jr., Irish Joy S. Yabut	Thelma V. Villaflores	Prenza National High School
	3	Arduino Spritz System: An Intelligent Garden Watering System	Adrian E. Frany, Francis Jay G. Siblag and Andrea C. Legaspi	Angelo G. Guballa	Sta. Maria National High School
	4	RCRM: Remote-Controlled Robot Mops	Ferlyn Pearl O. Bagadiong, Joseph Edward DC. Tolentino, Dwight Matthew E. Dedase, and Nathaniel G. Baron	Thelma V. Villaflores	Prenza National High School

