



# Awards Presentation for Coastal Bend Regional Science Fair 2022



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# 2022 Junior and Senior Division Awards



# Regional Awards: Junior Division



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# Junior Division: Animal Science (ANIM)



**#2**

**Canine Hide and Seek**

Jacob Wetz



**#1**

**The Most Effective Way to  
Synchronize Estrus in a Goat Herd**

Julie Jones



**#3**

**Birds and Colors**

Cami Egbert

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# Junior Division: Biochemistry (BCHM)



#1

Tree Leaves: Their Effect on Pool Water pH

Ethan Cronkhite

# Junior Division: Behavioral & Social Sciences (BEHA)



**#2**

**The Memory Game**

Steve Salinas



**#1**

**Sleep Deprivation and Memory**

Ava Varela & Evelyn Bieze



**#3**

**Math & Music**

Alexandria Craig

# Junior Division: Biomedical & Health Sciences (BMED)



**#2**

**EGGSploring ADA Seal of  
EGGceptance: The Impact on Those  
Diagnosed with Celiac Disease**

Evelyn McDevitt



**#1**

**Development of New Biomarker for  
the Diagnoses of Neurological  
Diseases**

Sharmada Palakurthi



**#3**

**Are Fingerprints Inherited?**

Delilah Trevino

# Junior Division: Cellular and Molecular Biology (CELL)



**#1**

**Electrolyte Challenge**

Jacob Turner



**#2**

**Vegetables vs. Fruit**

Sienna Bruce



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## Junior Division: Chemistry (CHEM)



**#2**

**Sports Drinks - Are  
They Worth It?**

Ruben Jaanus Cantu



**#1**

**The Power of Electrolytes: An  
Analysis of the Conductance of  
Certain Drinks**

Lauryn Moreno



**#3 (tie)**

**The ELIMEinator**

Dylan Bryan & Lahla Hagedorn

**City vs. Bottled Water: Is  
Bottled Water Worth Buying?**

Kaylee Coleman

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# Junior Division: Earth & Environmental Sciences (EAEV)



#2

**Is There a Difference in Air  
Quality Between Saltwater &  
Freshwater Wetlands?**

Eugene Walker



#1

**Temperatures and Trees**

Pier Carlo Perotto



#3 (Tie)

**In Deep Water**

Saara Bindingavele

**Is the Air Quality Better in the  
Classroom or at the Wetlands?**

Harmony Flaherty

# Junior Division: Embedded Systems (EBED)



**#1**

**Thickness and Material to the WiFi  
Signal**

Rachella Eleine De Mesa



**#2**

**If Water Can Conduct Electricity**

Eliza Zimmerman & Miguel Trevino

**Junior Division:**  
**Energy: Sustainable Materials and Design (EGSD)**



**#2**

**Seebeck Effect: The Relationship Between Temperature and Electricity**

Braydon Larkins



**#1**

**Wind Power: Finding an Optimal Rotor Blade Angle and the Best Location for the Wing Turbine**

Maria Ustymenko



**#3 (tie)**

**How Does the Temperature of a Magnet Affect the Number of Paper Clips it Can Pick up?**

Blake Castillo

**The Effect of Volleyball Pressure on Volleyball Speed**  
Evelyn Engle

# Junior Division: Biomedical Engineering (ENBM)



**#1**

**Strawberry DNA**

Olivia Martinez

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# Junior Division: Engineering Technology: Statics and Dynamics (ETSD)



#2

How do Different Shaped  
Speakers Affect the Frequency?

Ethan Perez



#1

Bernoulli's Principle

Kristal Cayabyab



#3

Weight vs. Density

Eileen Trevino

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## Junior Division: Environmental Engineering (ENEV)



#2

**How Salt Concentration  
Affects Desalination**

Tanishka Sinha, Sabrina  
Zheng, & Annabelle Quaye



#1

**Engineering an Eco-Friendly and  
Wind-Resistant Structural Insulated  
Panels (SIPs) for Hurricane Proof Home**

Soaham Kumar



#3

**Sun Rays**

Zaaden Garza, Zachary Barke,  
& Lailah Ramsey

# Junior Division: Mathematics (MATH)



**#1**

**Small Cube, Big Math**

Ruiqi Yang



**#2**

**Approximating the Area of  
Continental USA (continued)**

Amina Ahmed



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## Junior Division: Material Science (MATS)



**#2**

**What Type of Clothing Burns  
at the Highest Temperature**

Joel Lassahn



**#1**

**Fore!**

Jessica Vasquez



**#3 (tie)**

**Cleaning Coins**

Mia Hinojosa & Lizzie Leyba

**Eliminating Rust Scale**

Kaden Webb

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# Junior Division: Microbiology (MCRO)



**#1**

**Bye Bye Bacteria**

Julianna Cocotl & Mariana Ruiz



**#2**

**Rotten Fruit**

Carmelo Aguilar & Julian De Jesus

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# Junior Division: Physics and Astronomy (PHYS)



**#2**

**Paper Airplanes**

Manuel Alvarez



**#1**

**Electromagnetic Strength**

Peyton Porche



**#3 (tie)**

**Are Some Household Material More  
Flammable Than Others?**

Sydney Garza & Alyssa Rios

**Egg Dunk**

Desiree Bruce

# Junior Division: Plant Sciences (PLNT)



**#2**

**Does Different Type of  
Water Affect The Growth of  
Broccoli Microgreens?**

Youniq Le



**#1**

**pH Water Level Effects on Snap  
Pea Germination**

Lillie Midyett



**#3 (tie)**

**Plants and Temperature**

Leia Rivera

**Growing Green Pinto Beans**

Khloe Flores & Gage Morris

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## Junior Division: Robotics and Intelligent Machines (ROBO)



#2

**Grading Handwritten Homework  
with Artificial Intelligence**

Eli Walker



#1

**Cybersecurity: Hacked!**

Hailey Patel



#3

**Strengthen Our Wi Fi!**

Aubrey Garcia & Audrina Torres

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# Junior Division: System Software (SOFT)



#2

Internet Issues?

Ethan Isassi



#1

Skimming

Rene Gonzalez



#3

How Secure Are Your Security  
Questions?

Jazlynn Caballero

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# Junior Division: Translational Medical Science (TMED)



**#2**

**ASMR Bubble Chair for  
Sensory Needs**

TaNiya Davenport



**#1**

**5 Second Rule**

Mahit Mallikarjunaiah



**#3 (tie)**

**Water pH**

Dylan Durbin

**Balancing Blood Sugar**

Journee Carpenter &

Ja'serie Miller

# Regional Awards: Senior Division



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Senior Division:  
Behavioral & Social Sciences (BEHA)



**#1**

**Do Dogs Have a Food Preference?**

Jaelynn Carlton



**#2**

**The Effects of Music: Good or Bad?**

Jordan Bueno, Jose Villanueva,  
& Reyna Mendez

# Senior Division: Biomedical & Health Sciences (BMED)



**#1**

**Do Different Types of Antifungal  
Medicine Affect Yeast Differently?**

Morgan Dye

# Senior Division: Chemistry (CHEM)



**#2**

**Cabbage PH Indicator**

Mia Garcia & Isabella Pena



**#1**

**Concentration Station**

Roopa Bindingavele



**#3**

**Will Temperature Affect the  
Brightness of a Glowstick?**

Noah Dye

# Senior Division: Earth and Environmental Science (EAEV)



**#1**

That High of a pH level?

Lauren Sendejo

# Senior Division: Embedded Systems (EBED)



**#1**

**A Novel Low-Cost Alternative Home  
Security System**

Ronit Verma

# Senior Division: Energy: Sustainable Materials and Design (EGSD)



#1

## The Three Musketeers

Yazmin Conchas

Senior Division:  
Biomedical Engineering (ENBM)



**#1**

**ACEREVERS 1: Development of an Artificial  
Prototype Biosensor System for Identification  
and Treatment of Diabetic Ketoacidosis (DKA)**

Priyam Kumar



**#2**

**Athlete Temperature Sensor: A Novel  
Approach to Heat Stress Monitoring in  
Student Athletes.**

Cuauhtemoc Zamora

# Senior Division: Environmental Engineering (ENEV)



**#1**

**Water Filtration Analysis**

Vihaan Rajput



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# Senior Division: Mathematics (MATH)



**#1**

**Probability of Cards: Theoretical vs. Experimental  
Probability and Forming Strategy Using Averaging**

Celeste Torres & Isela Torres

# Junior Division: Materials Science (MATS)



**#1**

**Tension Trouble**  
Leela Bindingavele



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# Senior Division: Physics (PHYS)



**#1**

**Friction vs. An Object in Motion**  
Isabella Perales & Diego Trevino

# Senior Division: Plants (PLNT)



#1

**Density vs. Nutrition**  
Jacob Gonzalez & Zander Urrutia



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# Senior Division: Robotics (ROBO)



**#1**

**Using Machine Learning to Predict the  
Presence of Heart Disease**

Lucas Walker

# Senior Division: Translational Medical Science (TMED)



**#1**

**Assessing Changes To UV Exposure Risk with the  
Use of a Solar Panel**

Diego Romero & Fredrico Romero IV

# Special Awards



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# Special Awards

The American Psychological Association Award

**Evelyn Bieze & Eva Varela**

**Sleep Deprivation & Memory**





# Special Awards

ASM Materials Education Foundation

Roopa Bindingnavele

Concentration Station



# Special Awards

Association for Women Geoscientists Student Award for Geoscience Excellence

Leana Valeza

Do You Have Dangerous Soil?



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# Special Awards

Environmental Protection Agency

Maria Ustymenko

Wind Power:  
Finding Optimal Rotor Blade



# Special Awards

Mu Alpha Theta Award

**Celeste Torres & Isela Torres**

**Probability of Cards: Theoretical vs.  
Experimental Probability and Forming  
Strategy Using Averaging**



# Special Awards

NASA Earth System Science Project Award

Harmony Flahery

Is the Air Quality Better in the Classroom or at the Wetlands?



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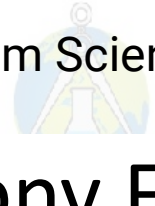
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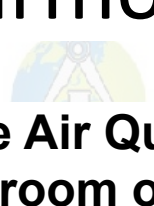
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# Special Awards

NOAA's 2022 Award

Sofia Porter, Isabel Alatorre, & Isabella Solis

Global Warming and  
Accelerated Erosion



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# Special Awards

Naval Science Awards - Senior Division

Cuauhtemoc Zamora

**Athlete Temperature Sensor: A Novel Approach to Heat Stress Monitoring in Student Athletes**



# Special Awards

RICOH Sustainable Development Award 2022

Soaham Kumar

Engineering an Eco-Friendly and  
Wind-Resistant Structural Insulated Panels  
(SIPs) for Hurricane Proof Home





# Special Awards

The United States Agency for International Development

Annabelle Quaye, Tanishka Sinha,  
& Sabrina Zheng

How Salt Concentration Affects Desalination



# Special Awards

U.S. Metric Association Certificate of Outstanding Achievement

## Amina Ahmed

Approximating the Area  
of Continental USA



# Special Awards

United States Air Force Certificate of Achievement

## Lucas Walker

Using Machine Learning to Predict the  
Presence of Heart Disease



# Special Awards

The Yale Science & Engineering Association Award

Priyam Kumar

**ACEREVERS 1: Development of an Artificial Prototype  
Biosensor System for Identification and Treatment of  
Diabetic Ketoacidosis (DKA)**



# Special Awards

Lemelson Early Inventor Prize

Sharmada Palakurthi

Development of New Biomarker for  
the Diagnosis of Neurological  
Disease



# Special Awards



STOCKHOLM  
JUNIOR  
WATER PRIZE

1<sup>st</sup> Place

Tanishka Sinha, Sabrina Zheng,  
& Annabelle Quaye

How Salt Concentration Affects Desalination



# Special Awards

**SIWI** STOCKHOLM  
JUNIOR  
WATER PRIZE

2<sup>nd</sup> Place

**Benedicta Boateng, Mia Lizcano,  
& Jazlyn Paluseo**

**How Does Incoming Water From the Bay Affect Water Quality at the  
Saltwater Wetlands?**



# Special Awards



STOCKHOLM  
JUNIOR  
WATER PRIZE

3rd Place

Dylan Durbin

Water pH





# Broadcom Masters (Top 10% 6-8)

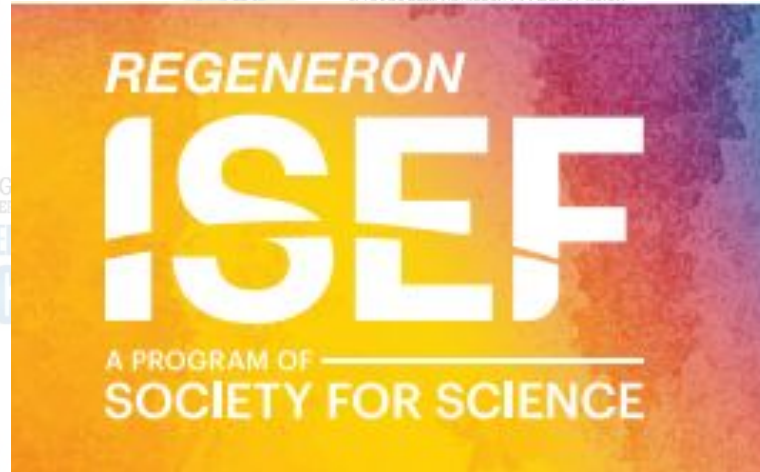
## National Middle School Science & Engineering Fair Competition



<b>Julie Jones</b>	<b>Kristal Cayabyab</b>
<b>Sharmada Palakurthi</b>	<b>Julianna Cocoti</b>
<b>Lauryn Moreno</b>	<b>Lillie Midyett</b>
<b>Pier Carlo Perotto</b>	<b>Hailey Patel</b>
<b>Maria Ustymenko</b>	<b>Rene Gonzalez</b>
<b>Soaham Kumar</b>	<b>TaNiya Davenport</b>
<b>Mariana Ruiz</b>	<b>Ethan Cronkhite</b>
<b>Peyton Porche</b>	

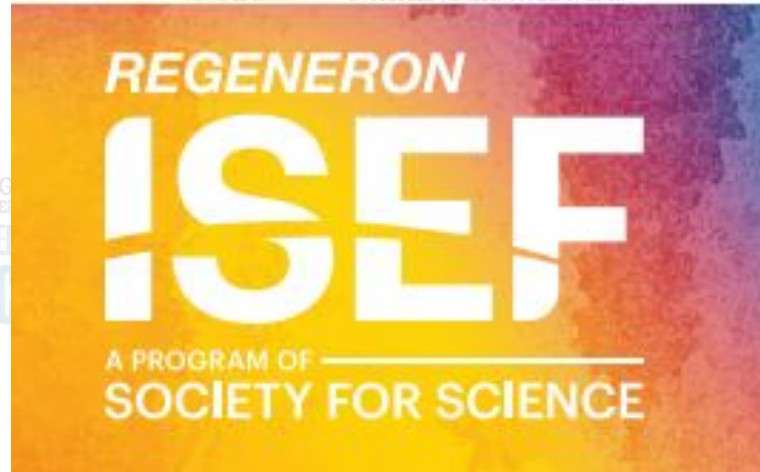
# International Science and Engineering Fair

Priyam Kumar  
Santa Gertrudis ISD



# International Science and Engineering Fair

Cauhtemoc Zamora  
Corpus Christi ISD





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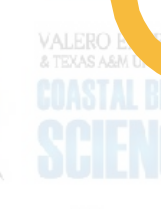
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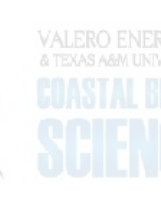
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# 2022 Junior and Senior Division Final Awards



# Junior Best in Division

Soaham Kumar  
Santa Gertrudis ISD



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# Senior Best in Division

Priyam Kumar

Santa Gertrudis ISD



# Coastal Bend Regional Science Fair Best in Show 2022


Priyam Kumar  
Santa Gertrudis ISD



**2022**  
**Thank you to our**  
**Judges,**  
**Teachers,**  
**Parents and**  
**Most of All**  
**STUDENTS!**







**See you next year!  
Congratulations and Keep Doing  
Science!**

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