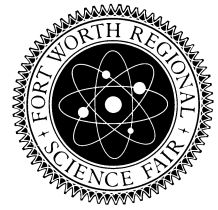


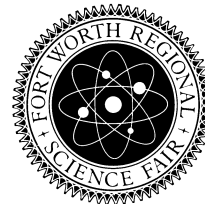
# Fort Worth Regional Science Fair

## Winners Directory



Award: **ANIMAL SCIENCES**

<b>First Place: Reeves Baller</b> Project: <b>Mealworm Magic!</b>	Division: <b>J</b>	<b>52603</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Kate Daggett</b>	
<b>Second Place: Owen Aramburu</b> Project: <b>Are Fingerprint Patterns Inherited</b>	Division: <b>J</b>	<b>46154</b>
School: <b>ACTON MIDDLE SCHOOL</b>	Advisor: <b>Scott Carpenter</b>	
<b>Third Place: Mackenzie Hamilton</b> Project: <b>Best Blanket Bond</b>	Division: <b>J</b>	<b>51254</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Loren Gallo</b>	

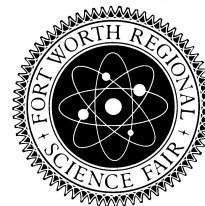


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **BEHAVIORAL & SOCIAL SCIENCES**

<b>First Place:</b> Savanna Morris Project: <b>Left Brain v.s. Right Brain</b>	Division: <b>J</b>	<b>49764</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Kate Daggett</b>	
<b>Second Place:</b> Eman Khan Project: <b>Optical Illusions (Boys vs. Girls)</b>	Division: <b>J</b>	<b>70833</b>
School: <b>HARMONY ACADEMY - EULESS MIDDLE SC</b>	Advisor: <b>Mary Dunn</b>	
<b>Third Place:</b> Carsyn Wheeler Project: <b>Are You Smarter Than a Middle Schooler?</b>	Division: <b>J</b>	<b>65404</b>
School: <b>ACTON MIDDLE SCHOOL</b>	Advisor: <b>Scott Carpenter</b>	



# Fort Worth Regional Science Fair

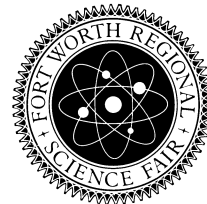
## Winners Directory

### Award: **BIOCHEMISTRY**

<b>First Place:</b> Wafiqah Zubair	Division: J	69205
Project: <b>The Most Effective DNA Extraction Process</b>		
School: <b>HARMONY ACADEMY - EULESS MIDDLE SC</b>	Advisor: <b>Mary Dunn</b>	
<b>Second Place:</b> Averie Coffman	Division: J	45254
Project: <b>What's In Your Drink? Part 2</b>		
School: <b>GRANBURY MIDDLE SCHOOL</b>	Advisor: <b>Elizabeth Parks</b>	
<b>Third Place:</b> Jackie McGuire	Division: J	50146
Project: <b>Minor Meltdown</b>		
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Loren Gallo</b>	

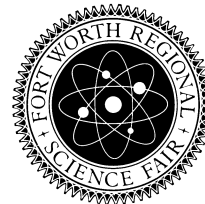
# Fort Worth Regional Science Fair

## Winners Directory



Award: **CHEMISTRY**

<b>First Place:</b> Sara Savage	Division: J	70268
Project: <b>What Metal Is Most Affected By Salted Water</b>		
School: <b>ST. JOHN APOSTLE CATHOLIC MIDDLE SCH</b>	Advisor: <b>Kevin Hathaway</b>	
<b>Second Place:</b> Karisma Hernandez	Division: J	70757
Project: <b>Bath Bomb Palooza</b>		
School: <b>Irma Marsh Middle School</b>	Advisor: <b>Katie Hendrix</b>	
<b>Second Place:</b> Ariana Narezo	Division: J	70757
Project: <b>Bath Bomb Palooza</b>		
School: <b>Irma Marsh Middle School</b>	Advisor: <b>Katie Hendrix</b>	
<b>Third Place:</b> Zoe Montgomery	Division: J	69874
Project: <b>Boom Bags: The Effect of Climate Changes on Air Bag Fill Rate</b>		
School: <b>TAMS Middle School Aspire Fair</b>	Advisor: <b>Russ Stukel</b>	

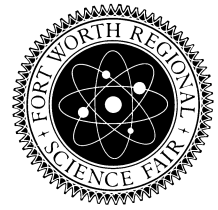


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **COMPUTER SCIENCE**

<b>First Place: Raphael Cacho</b>	<b>Division: J</b>	<b>70427</b>
Project: <b>V.e.l.o.c.i.t.y. Vessel Emitting Light of computing technological yield</b>		
School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Advisor: <b>Darryl Narcisse</b>	
<b>Second Place: Eliyah El</b>	<b>Division: J</b>	<b>69986</b>
Project: <b>Pick Me Up</b>		
School: <b>Harmony School of Nature (Dallas) MS</b>	Advisor: <b>Fatih Ilhan</b>	
<b>Third Place: Risha Chatterjee</b>	<b>Division: J</b>	<b>69610</b>
Project: <b>Wifi Signal Strength</b>		
School: <b>Harmony Science Academy Carrollton-Middle Sch</b>	Advisor: <b>Nuray Elbasi</b>	



# Fort Worth Regional Science Fair

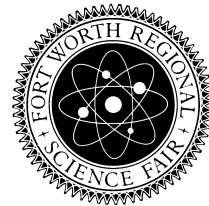
## Winners Directory

### Award: **EARTH & PLANETARY SCIENCE**

<b>First Place:</b> Ashar Khazi-Syed	Division: J	70022
Project: <b>Microbes The Giants of the Future: Water Desalination Using MDC's</b>		
School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Advisor: <b>Darryl Narcisse</b>	

<b>Second Place:</b> Nathaniel Houchen	Division: J	70438
Project: <b>Let There Be Light</b>		
School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Advisor: <b>Alyson Collins</b>	

<b>Third Place:</b> Jaila Dobie	Division: J	69105
Project: <b>Algae Alive</b>		
School: <b>NORTHSTAR MIDDLE SCHOOL</b>	Advisor: <b>Erin Jezek</b>	

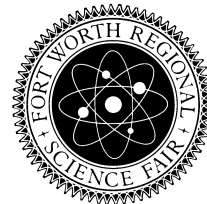


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **ENERGY & TRANSPORTATION**

<b>First Place:</b> Enzo Sagun Project: <b>Hydro Gen</b>	Division: <b>J</b>	<b>69213</b>
School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Advisor: <b>Deborah Epps</b>	
<b>Second Place:</b> Kathryn Tyler Project: <b>Sometimes it Pays to be an Airhead</b>	Division: <b>J</b>	<b>51130</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Loren Gallo</b>	
<b>Third Place:</b> Sidney Tillotson Project: <b>How Does Tire Pressure Affect Gas Mileage?</b>	Division: <b>J</b>	<b>70985</b>
School: <b>Graham Junior High School</b>	Advisor: <b>Jeanne Richardson</b>	



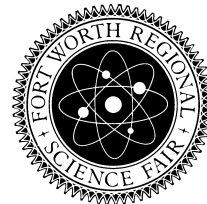
# Fort Worth Regional Science Fair

## Winners Directory

### Award: **ENGINEERING: ELECTRICAL & MECHANICAL**

<b>First Place: Rajveer Sagoo</b> Project: <b>Nitinol-60 Rockets</b>  School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Division: <b>J</b>  Advisor: <b>Darryl Narcisse</b>	<b>70574</b>
<b>Second Place: Major Hermann</b> Project: <b>Handyman</b>  School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Division: <b>J</b>  Advisor: <b>Kate Daggett</b>	<b>49959</b>
<b>Third Place: Josue Burciaga</b> Project: <b>Wind power</b>  School: <b>ST. JOHN APOSTLE CATHOLIC MIDDLE SCH</b>	Division: <b>J</b>  Advisor: <b>Kevin Hathaway</b>	<b>70415</b>





# Fort Worth Regional Science Fair

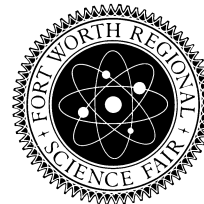
## Winners Directory

**Award: ENGINEERING: MATERIALS & BIOENGINEERING**

<b>First Place: Michael Ramirez</b>	Division: <b>J</b>	<b>51742</b>
Project: <b>Light but Mighty: Carbon Fiber Composite</b>		
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Loren Gallo</b>	

<b>Second Place: Amalya Graham</b>	Division: <b>J</b>	<b>50831</b>
Project: <b>Polarity Party</b>		
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Loren Gallo</b>	

<b>Third Place: Avery Hutka</b>	Division: <b>J</b>	<b>41583</b>
Project: <b>What Does it Take to Make a Bridge Break?</b>		
School: <b>ST. ELIZABETH ANN SETON CATHOLIC MID</b>	Advisor: <b>Katherine Arnold</b>	
<b>Third Place: Elizabeth Ratterree</b>	Division: <b>J</b>	<b>41583</b>
Project: <b>What Does it Take to Make a Bridge Break?</b>		
School: <b>ST. ELIZABETH ANN SETON CATHOLIC MID</b>	Advisor: <b>Katherine Arnold</b>	

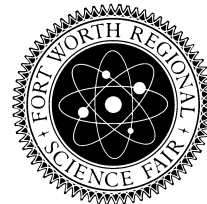


# Fort Worth Regional Science Fair

## Winners Directory

### Award: ENVIRONMENTAL SCIENCES

<b>First Place:</b> Victoria Fasakin	Division: J	70445
Project: Almost Free Energy		
School: Harmony School of Nature (Dallas) MS	Advisor: Fatih Ilhan	
<b>Second Place:</b> Julia Shanks	Division: J	58618
Project: Water Spins Me Right Round Baby Right Round		
School: LIBERTY CHRISTIAN SCHOOL	Advisor: Loren Gallo	
<b>Third Place:</b> Pietra deBoer	Division: J	69154
Project: Which light is more effective on creating greater algae growth in dairy farm wastewater farms: zero light, day light, medium light, or high light?		
School: CHRISTIAN COTTAGE PREP MIDDLE SCHOO	Advisor: Teri Willis	

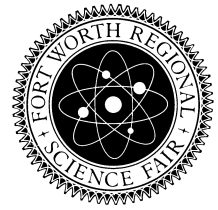


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **MEDICINE AND HEALTH SCIENCES**

<b>First Place: Lindy Lyda</b> Project: <b>The Effect of CILTEP and Pirecetam on D. Dorocephala and the Potential Relation to Human Memory</b>  School: <b>E.A. YOUNG ACADEMY MS</b>	Division: <b>J</b> <b>64694</b>  Advisor: <b>Carol Raymond</b>
<b>Second Place: Stewart Cox</b> Project: <b>Supertasters: Can You Taste That?</b>  School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Division: <b>J</b> <b>69207</b>  Advisor: <b>Deborah Epps</b>
<b>Third Place: Shazia Khan</b> Project: <b>Which is more effective for SPF protection: Homemade Sunscreen, Banana Boat SPF 30, Banana Boat SPF 50, Hawaiian Tropic SPF 30, or Hawaiian Tropic SPF 50?</b>  School: <b>CHRISTIAN COTTAGE PREP MIDDLE SCHOO</b>	Division: <b>J</b> <b>67997</b>  Advisor: <b>Teri Willis</b>



# Fort Worth Regional Science Fair

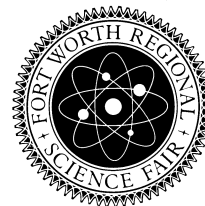
## Winners Directory

### Award: **MICROBIOLOGY**

<b>First Place:</b> Alyssa Trasporto	Division: J	51013
Project: <b>Bacteria Banished: An Investigation on the Effect of Varying pH Levels on Promoting Bactericidal Processes</b>		
School: <b>TAMS Middle School Aspire Fair</b>	Advisor: <b>Russ Stukel</b>	

<b>Second Place:</b> Gavin Logsdon	Division: J	48274
Project: <b>Milk, Heat, and Bacteria</b>		
School: <b>ACTON MIDDLE SCHOOL</b>	Advisor: <b>Scott Carpenter</b>	

<b>Third Place:</b> Keira Madl	Division: J	70144
Project: <b>The Best Way to Scrub Germs Away</b>		
School: <b>ST. JOHN APOSTLE CATHOLIC MIDDLE SCH</b>	Advisor: <b>Kevin Hathaway</b>	

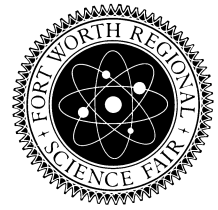


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **PHYSICS AND ASTRONOMY**

<b>First Place:</b> Ella Sconfiatti Project: <b>Magnets: Pushed To The Extreme</b>	Division: <b>J</b>	<b>41685</b>
School: <b>ST. ELIZABETH ANN SETON CATHOLIC MID</b>	Advisor: <b>Katherine Arnold</b>	
<b>Second Place:</b> Ellie Meredith Project: <b>The Great Fall</b>	Division: <b>J</b>	<b>50344</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Kate Daggett</b>	
<b>Third Place:</b> Naomi Lin Project: <b>So Slippery!</b>	Division: <b>J</b>	<b>70211</b>
School: <b>HARMONY SCHOOL OF INNOVATION MIDD</b>	Advisor: <b>Darryl Narcisse</b>	

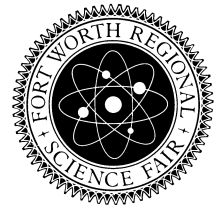


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **PLANT SCIENCES**

<b>First Place: Liberty Kelly</b> Project: <b>The Future of Botany</b>	Division: <b>J</b>	<b>69985</b>
School: <b>Harmony School of Nature (Dallas) MS</b>	Advisor: <b>Fatih Ilhan</b>	
<b>Second Place: Sydney Reardon</b> Project: <b>Worms Work! "BeLEAF" or Not!</b>	Division: <b>J</b>	<b>49967</b>
School: <b>LIBERTY CHRISTIAN SCHOOL</b>	Advisor: <b>Kate Daggett</b>	
<b>Third Place: David Kearns</b> Project: <b>The Effects of WiFi vs. LTE on Plant Growth</b>	Division: <b>J</b>	<b>55237</b>
School: <b>E.A. YOUNG ACADEMY MS</b>	Advisor: <b>Carol Raymond</b>	



# Fort Worth Regional Science Fair

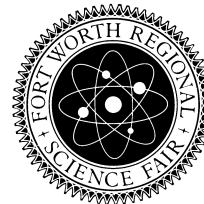
## Winners Directory

### Award: ANIMAL SCIENCES

<b>First Place:</b> Leo Dong	Division: S	58166
Project: Degrowth in planarians <i>Schmidtea mediterranea</i> and <i>Girardia dorocephala</i>		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

<b>Second Place:</b> Mira Patel	Division: S	61086
Project: Trans generational effects of glucose on <i>C. elegans</i>		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

<b>Third Place:</b> Blake Pope	Division: S	41711
Project: Mitochondrial Genetic Variation Within and Among <i>Holbrookia lacerata lacerata</i> and <i>Holbrookia lacerata subcaudalis</i> , the Spot-tailed Earless Lizards of Texas		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Gary Nicholson	



# Fort Worth Regional Science Fair

## Winners Directory

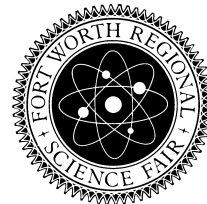
**Award: BEHAVIORAL & SOCIAL SCIENCES**

<b>First Place: Ainsley McDonald-Boyer</b>	Division: S	<b>40875</b>
Project: <b>Diagnostic Test for Dyslexia: Year 3</b>		
School: <b>AZLE HIGH SCHOOL</b>	Advisor: <b>Kimberly Wrick</b>	

<b>Second Place: Sarah Nurani</b>	Division: S	<b>40961</b>
Project: <b>Sublime Symmetry</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Third Place: Kros Croxton</b>	Division: S	<b>66334</b>
Project: <b>Cell Phone Concentration</b>		
School: <b>GRANBURY HIGH SCHOOL</b>	Advisor: <b>Priscilla Lumbreras</b>	
<b>Third Place: Cineca Valverde</b>	Division: S	<b>66334</b>
Project: <b>Cell Phone Concentration</b>		
School: <b>GRANBURY HIGH SCHOOL</b>	Advisor: <b>Priscilla Lumbreras</b>	
<b>Third Place: Riley Pickett</b>	Division: S	<b>66334</b>
Project: <b>Cell Phone Concentration</b>		
School: <b>GRANBURY HIGH SCHOOL</b>	Advisor: <b>Priscilla Lumbreras</b>	





# Fort Worth Regional Science Fair

## Winners Directory

### Award: **BIOCHEMISTRY**

**First Place: Sangita Vasikaran** Division: S **51858**

Project: **Effective Evasion of Chemotherapeutic Resistance by Functionalized Viral Capsid Q-beta**

School: **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor: **Samuel Earls**

**Second Place: Rishi Shridharan** Division: S **55307**

Project: **Effects of Primary Cilia Loss on Population of Oligodendrocyte Lineage in Mouse Brain**

School: **TEXAS ACADEMY OF MATHEMATICS AND S**

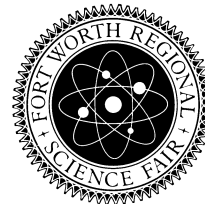
Advisor: **Samuel Earls**

**Third Place: Aamilah Chowdhury** Division: S **45180**

Project: **Investigating the Effects of Electronic Cigarettes on Daphnia magna's Heart Rate and Mortality**

School: **SUMMIT INTERNATIONAL HIGH SCHOOL**

Advisor: **Omeshia Moffett**



# Fort Worth Regional Science Fair

## Winners Directory

Award: **CHEMISTRY**

**First Place: Ellen Qian** Division: S **57823**

Project: **Developing A Multifaceted Approach to the Solvent Selection Process**

School: **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor: **Samuel Earls**

**Second Place: Claire Welton** Division: S **40555**

Project: **Which Ibuprofen Will Win?**

School: **Grapevine High School**

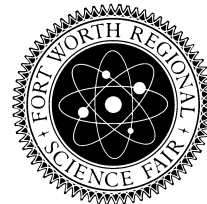
Advisor: **Erin Smith**

**Third Place: Isabella Hurtado** Division: S **41063**

Project: **Beating the Drinking Game: Engineering a Coaster to Detect Alcohol Content**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**



# Fort Worth Regional Science Fair

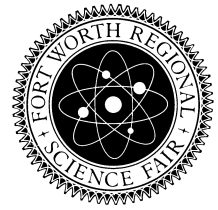
## Winners Directory

Award: **COMPUTER SCIENCE**

<b>First Place: Chenglong Huang</b>	Division: S	<b>70820</b>
Project: <b>Deep Learning for Survival Prediction from Imaging Genetics Data</b>		
School: <b>CHHS-ch</b>	Advisor: <b>Junzhou Huang</b>	

<b>Second Place: Ritik Patnaik</b>	Division: S	<b>51796</b>
Project: <b>Piometrics FingoID: Multimodal Biometric Authentication through Peripheral Vein Patterns and Fingerprints</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Advisor: <b>Samuel Earls</b>	

<b>Third Place: Ben Aubin</b>	Division: S	<b>64316</b>
Project: <b>SolveWords: An Algorithm for Automatically Solving Mathematical Word Problems with Machine Learning</b>		
School: <b>E.A. YOUNG ACADEMY HS</b>	Advisor: <b>Carol Raymond</b>	



# Fort Worth Regional Science Fair

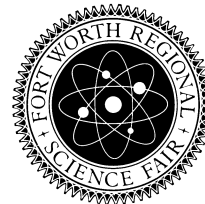
## Winners Directory

**Award: EARTH & PLANETARY SCIENCE**

<b>First Place: Ashley McKillop</b>	Division: S	<b>40966</b>
Project: <b>Can We Change the Way We Develop Cities to Prevent Flooding?</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Second Place: Jasmine Sun</b>	Division: S	<b>42046</b>
Project: <b>Can Wax Worms Solve Our Plastic Crisis?</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Third Place: Helen Ye</b>	Division: S	<b>43955</b>
Project: <b>Oil-Eating Bacteria (Subject to Change)</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	



# Fort Worth Regional Science Fair

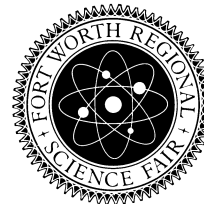
## Winners Directory

### Award: **ENERGY & TRANSPORTATION**

<b>First Place: Nick Lee</b>	Division: S	<b>40950</b>
Project: <b>A Bright Future: the Use of Organic Waste in Dye-Sensitized Cells in the Creation of Efficient Solar Energy Systems</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	
<b>First Place: Grace Lee</b>	Division: S	<b>40950</b>
Project: <b>A Bright Future: the Use of Organic Waste in Dye-Sensitized Cells in the Creation of Efficient Solar Energy Systems</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Second Place: Sarah Zou</b>	Division: S	<b>51246</b>
Project: <b>High-Performance Lithium-Ion Battery Electrode Derived from Sustainable Biomass</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Advisor: <b>Samuel Earls</b>	

<b>Third Place: Thomas Holt</b>	Division: S	<b>70454</b>
Project: <b>Charge It: Charge your phone with a gravity powered charging station</b>		
School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Advisor: <b>Nicole Turner</b>	



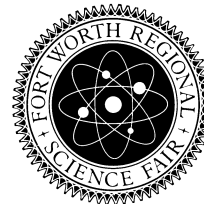
# Fort Worth Regional Science Fair

## Winners Directory

**Award: ENGINEERING: ELECTRICAL & MECHANICAL**

<b>First Place: Justin Yu</b>	Division: S	<b>40957</b>
Project: <b>Winging it: Performance of Co-Flow Jets on Common Airfoils at Low Reynolds Numbers</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Second Place: Lucio Petrilli</b>	Division: S	<b>70039</b>
Project: <b>VR and Haptics: The After Effects</b>		
School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Advisor: <b>Bilal Yildirim</b>	
<b>Second Place: Ethan Bolling</b>	Division: S	<b>70039</b>
Project: <b>VR and Haptics: The After Effects</b>		
School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Advisor: <b>Bilal Yildirim</b>	
<b>Second Place: Kevin Mathew</b>	Division: S	<b>70039</b>
Project: <b>VR and Haptics: The After Effects</b>		
School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Advisor: <b>Bilal Yildirim</b>	

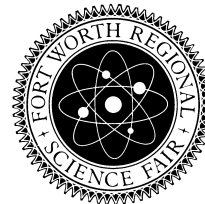


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **ENGINEERING: MATERIALS & BIOENGINEERING**

<b>First Place:</b> Alexandra Popke Project: <b>Bio-Tarp</b>  School: <b>Colleyville Heritage High School</b>	Division: S  Advisor: <b>Sonya Loughran</b>	<b>43367</b>
<b>Second Place:</b> Kesavan Srivilliputhur Project: <b>Mechanisms of Rare Gas Diffusion Through Graphene Using First Principles Simulations</b>  School: <b>Denton High School</b>	Division: S  Advisor: <b>Heather Lentz</b>	<b>70256</b>
<b>Third Place:</b> Jonathan Lu Project: <b>Laser-Enhanced Biodegradable Bone Implants: In Vitro-Assessed Biomineralization and Degradation of Mg-Alloy Biomaterials with Optimized Microstructure Modifications</b>  School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Division: S  Advisor: <b>Samuel Earls</b>	<b>57762</b>



# Fort Worth Regional Science Fair

## Winners Directory

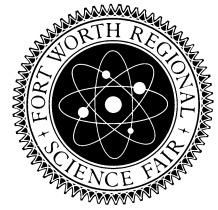
### Award: ENVIRONMENTAL SCIENCES

<b>First Place:</b> David Yue	Division: S	65709
Project: <b>Innovative High-Performance Polymer-Blended Mixed-Matrix Membranes (PB-MMMs) with Heterogenous Triadic Compatibilizers - Small Organic Molecules, Metal Organic Frameworks, and Carbon Nanotubes for Effective Gas Separation</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>		Advisor: <b>Samuel Earls</b>

<b>Second Place:</b> Austin Graves	Division: S	62371
Project: <b>Fly Me to the Sun</b>		
School: <b>LIBERTY CHRISTIAN HIGH SCHOOL</b>		Advisor: <b>Jamie Michalek</b>
<b>Second Place:</b> Jake Watson	Division: S	62371
Project: <b>Fly Me to the Sun</b>		
School: <b>LIBERTY CHRISTIAN HIGH SCHOOL</b>		Advisor: <b>Jamie Michalek</b>
<b>Second Place:</b> Arnold Xu	Division: S	62371
Project: <b>Fly Me to the Sun</b>		
School: <b>LIBERTY CHRISTIAN HIGH SCHOOL</b>		Advisor: <b>Jamie Michalek</b>

<b>Third Place:</b> Alicia Hurtado	Division: S	40808
Project: <b>Self-Cleaning Solar Panel: The Construction and Application of a Dark-Detecting Photoresistor Circuit to Maximize Solar Panel Efficiency</b>		
School: <b>Colleyville Heritage High School</b>		Advisor: <b>Sonya Loughran</b>
<b>Third Place:</b> Jamil Okada	Division: S	40808
Project: <b>Self-Cleaning Solar Panel: The Construction and Application of a Dark-Detecting Photoresistor Circuit to Maximize Solar Panel Efficiency</b>		
School: <b>Colleyville Heritage High School</b>		Advisor: <b>Sonya Loughran</b>





# Fort Worth Regional Science Fair

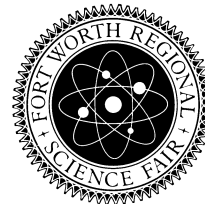
## Winners Directory

### Award: **MATHEMATICAL SCIENCES**

<b>First Place:</b> Rhea Kapoor	Division: S	57821
Project: <b>Application of Fractal Geometry for Early Detection and Histopathological Analysis of Lung Cancer</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Advisor: <b>Samuel Earls</b>	

<b>Second Place:</b> Arjun Mehendale	Division: S	61251
Project: <b>Graduation Nation: A Statistical Analysis of the Effect of Various Factors on College Graduation Rates</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	

<b>Third Place:</b> Caiden Trivedi	Division: S	65255
Project: <b>Using a GLM and Specific Variables to Predict the Longevity of a Football Players Career</b>		
School: <b>E.A. YOUNG ACADEMY HS</b>	Advisor: <b>Carol Raymond</b>	

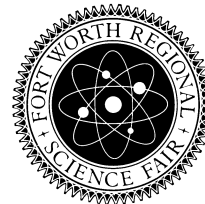


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **MEDICINE AND HEALTH SCIENCES**

<b>First Place: Ruhani Ahluwalia</b> Project: <b>Lipoprotein-based Therapeutic Approach to Combat Breast Cancer</b>  School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Division: <b>S</b>  Advisor: <b>Omer Dogan</b>	<b>66423</b>      
<b>Second Place: Allen Zhou</b> Project: <b>3D Scaffold Prosthesis</b>  School: <b>Carroll High AZ</b>	Division: <b>S</b>  Advisor: <b>LiPing Tang</b>	<b>69749</b>      
<b>Third Place: Ziqian Wang</b> Project: <b>A Helping Hand: Analyzing the Viability of Reaction-Driven Soft Robotic Actuators</b>  School: <b>Colleyville Heritage High School</b>	Division: <b>S</b>  Advisor: <b>Sonya Loughran</b>	<b>40994</b>      
<b>Third Place: Zafir Patel</b> Project: <b>A Helping Hand: Analyzing the Viability of Reaction-Driven Soft Robotic Actuators</b>  School: <b>Colleyville Heritage High School</b>	Division: <b>S</b>  Advisor: <b>Sonya Loughran</b>	<b>40994</b>      

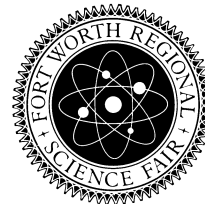


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **MICROBIOLOGY**

<b>First Place: Alice Hou</b> Project: <b>Single Cell Analysis Nanochip Platform with Multi-dimensional Therapeutical Impact</b>	Division: <b>S</b> Advisor: <b>Samuel Earls</b>	<b>57653</b>
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>		
<b>Second Place: Andy Huynh</b> Project: <b>Heat Shock Time on Bacterial Transformation Efficiency</b>	Division: <b>S</b> Advisor: <b>Gary Nicholson</b>	<b>42240</b>
School: <b>SUMMIT INTERNATIONAL HIGH SCHOOL</b>		
<b>Second Place: Ashley Sanchez</b> Project: <b>Heat Shock Time on Bacterial Transformation Efficiency</b>	Division: <b>S</b> Advisor: <b>Gary Nicholson</b>	<b>42240</b>
School: <b>SUMMIT INTERNATIONAL HIGH SCHOOL</b>		
<b>Third Place: Savanna Hutcherson</b> Project: <b>Antibiotic Resistance</b>	Division: <b>S</b> Advisor: <b>Sonya Loughran</b>	<b>44152</b>
School: <b>Colleyville Heritage High School</b>		

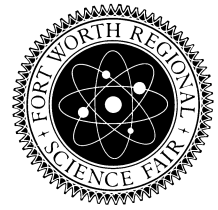


# Fort Worth Regional Science Fair

## Winners Directory

### Award: **PHYSICS AND ASTRONOMY**

<b>First Place:</b> Sahil Patel	Division: S	<b>58668</b>
Project: <b>Design and Simulation of a Novel Concentric Cone Antihydrogen Gravity Experiment</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Advisor: <b>Samuel Earls</b>	
<b>Second Place:</b> Pratyush Potu	Division: S	<b>51450</b>
Project: <b>Analysis of the rate of antihydrogen synthesis in three-body recombination involving magnetobound protonium and positron plasmas</b>		
School: <b>TEXAS ACADEMY OF MATHEMATICS AND S</b>	Advisor: <b>Samuel Earls</b>	
<b>Third Place:</b> Jesse Marasigan	Division: S	<b>70967</b>
Project: <b>Stealthy Shapes</b>		
School: <b>HARMONY SCHOOL OF INNOVATION HIGH</b>	Advisor: <b>Nicole Turner</b>	



# Fort Worth Regional Science Fair

## Winners Directory

### Award: **PLANT SCIENCES**

<b>First Place: Kevin Doody</b>	Division: S	<b>43746</b>
Project: <b>Made in the Shade: The Study of the Effects of Varying Photoperiods on the Circadian Rhythms of Arabidopsis Plants</b>		
School: <b>Colleyville Heritage High School</b>	Advisor: <b>Sonya Loughran</b>	
<b>Second Place: Hunter Meroney</b>	Division: S	<b>66086</b>
Project: <b>Do wind farms cause harm to plants?</b>		
School: <b>GRANBURY HIGH SCHOOL</b>	Advisor: <b>Priscilla Lumbreras</b>	
<b>Third Place: Elizabeth Nemirovski</b>	Division: S	<b>40873</b>
Project: <b>The Effects of Radiation</b>		
School: <b>Grapevine High School</b>	Advisor: <b>Erin Smith</b>	