

Fort Worth Regional Science Fair

Winners Directory

Award: **Animal Science**

First Place: Caitlynn Pham Division: I 00272
 Project: **The Effect of Planarian Regeneration on Learned Memory**

School **HARMONY SCHOOL OF NATURE & ATHLETICS** Advisor **LaRue Candace**

First Place: Sadichhya Bhattarai Division: I 00272
 Project: **The Effect of Planarian Regeneration on Learned Memory**

School **HARMONY SCHOOL OF NATURE & ATHLETICS** Advisor **LaRue Candace**

Second Place: Laura Pang Division: I 00526
 Project: **Use of microsatellites to identify cryptic lineages of the sunflower fly, *Strauzia longipennis***

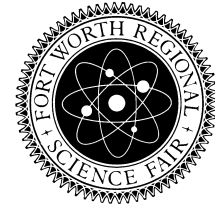
School **TEXAS ACADEMY OF MATHEMATICS AND SCIENCE** Advisor **Fleming Donna**

Third Place: Alex Slack Division: I 00400
 Project: **Light Loving Bugs**

School **LIBERTY CHRISTIAN HIGH SCHOOL** Advisor **Michalek Jamie**

Third Place: Matthew Sheng Division: I 00400
 Project: **Light Loving Bugs**

School **LIBERTY CHRISTIAN HIGH SCHOOL** Advisor **Michalek Jamie**



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Winners Directory

Award: **Behavior and Social Sciences**

First Place: Emily Bryan	Division: I	00338
Project: United States of Dependency		

School **AZLE HIGH SCHOOL**

Advisor **Amyett Monica**

First Place: Richard O'Neal	Division: I	00338
Project: United States of Dependency		

School **AZLE HIGH SCHOOL**

Advisor **Amyett Monica**

Second Place: Minhngoc Vu	Division: I	00276
Project: Color Me Cognitive		

School **SUMMIT INTERNATIONAL HIGH SCHOOL**

Advisor **Pope Brandon**

Third Place: Kenya Guardado	Division: I	00179
Project: I Saw What You Did Too, Or Did I?		

School **SUMMIT INTERNATIONAL HIGH SCHOOL**

Advisor **Pope Brandon**

Third Place: Grace Obanigba	Division: I	00179
Project: I Saw What You Did Too, Or Did I?		

School **SUMMIT INTERNATIONAL HIGH SCHOOL**

Advisor **Pope Brandon**

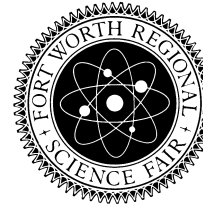
Third Place: Minhchau Vu	Division: I	00179
Project: I Saw What You Did Too, Or Did I?		

School **SUMMIT INTERNATIONAL HIGH SCHOOL**

Advisor **Pope Brandon**

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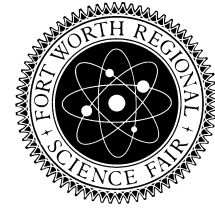
Winners Directory



Award: **Biochemistry**

First Place: Erin Yang	Division: I	00398
Project: Clonal Dynamics of Hepatocytes in the Context of Regeneration after Chronic CCl4 Intoxication		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Elijah Pettis	Division: I	00318
Project: One Helps All		
School HARMONY SCHOOL OF NATURE & ATHLETI	Advisor Cother John	



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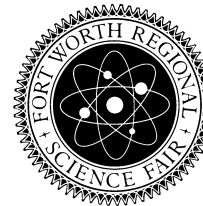
Winners Directory

Award: **Cellular and Molecular Biology**

First Place: Justin Du	Division: I	00156
Project: Characteristics of Primary Cilia Following Cortical Stab Injury		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	
First Place: Franklin Zhang	Division: I	00156
Project: Characteristics of Primary Cilia Following Cortical Stab Injury		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Alex White	Division: I	00547
Project: Inhibition Of Host-cell Endosomal Acidification By H1n1 Influenza		
School Uplift North Hills Prep.	Advisor Bojana Radja	

Third Place: Thomas Yu	Division: I	00331
Project: Expression of PH3 and Ki67 in Neural Stem Cells of Naked Mole Rats		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	
Third Place: Aaron Liu	Division: I	00331
Project: Expression of PH3 and Ki67 in Neural Stem Cells of Naked Mole Rats		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	



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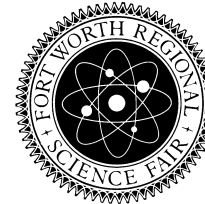
Winners Directory

Award: **Chemistry**

First Place: Liesl Krone	Division: I	00365
Project: Stay Home or Go Global		
School CROSSLAND 9TH GRADE CENTER	Advisor Morris Kayli	

Second Place: Julieta Medina-Rosas	Division: I	00523
Project: Burning Calories		
School EVERMAN HIGH SCHOOL	Advisor Larry	

Third Place: Zijun Yu	Division: I	00269
Project: Development of Computational Strategies for Lanthanide Elements		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	



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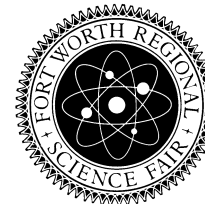
Winners Directory

Award: **Computer Science**

First Place: Jiacheng Jason He	Division: I	00160
Project: Detecting Heart Disease Faster		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Zhong Justin	

Second Place: Abhy Vytheeswaran	Division: I	00252
Project: Detecting horizontal gene transfer to effectively analyze evolutionary relationships		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Third Place: Noemi Solis	Division: I	00141
Project: RING... RING...		
School EVERMAN HIGH SCHOOL	Advisor Larry	



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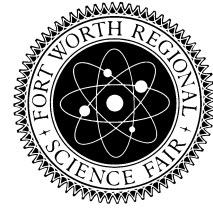
Winners Directory

Award: **Earth and Planetary Science**

First Place: Joanne Shang	Division: I	00445
Project: Geothermal Study of Archaeal Glycerol Dialkyl Glycerol Tetraether Lipids in Yunnan, China		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Zhong Justin	

Second Place: Katelyne Halovanic	Division: I	00312
Project: Illuminating Oils		
School LIBERTY CHRISTIAN HIGH SCHOOL	Advisor Michalek Jamie	
Second Place: Gracie Meek	Division: I	00312
Project: Illuminating Oils		
School LIBERTY CHRISTIAN HIGH SCHOOL	Advisor Michalek Jamie	

Third Place: Carmen Guerrero	Division: I	00339
Project: Craters in the sand		
School EVERMAN HIGH SCHOOL	Advisor Larry	



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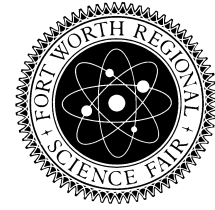
Winners Directory

Award: **Energy and Transportation**

First Place: Raviteja Lingineni	Division: I	00227
Project: Induction Generator Based Energy Recovery System from vehicular motion		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Andrew Norsworthy	Division: I	00215
Project: Hot to the Touch: Observations of the Seebeck Effect and its potential applications.		
School THE HOME EDUCATORS OUTSOURCING SO	Advisor Norsworthy Bernice	

Third Place: Collin Mccollum	Division: I	00152
Project: How do things fly?		
School EVERMAN HIGH SCHOOL	Advisor Larry	



Fort Worth Regional Science Fair

Winners Directory

Award: **Eng: Materials and Bioengineering**

First Place: Jisoo Min Division: I 00427
 Project: Nanoscale Pipette Sensor Fabrication for Cancer Cell Temperature Characterization

School **TEXAS ACADEMY OF MATHEMATICS AND S** Advisor **Fleming Donna**

First Place: Jae Sohn Division: I 00427
 Project: Nanoscale Pipette Sensor Fabrication for Cancer Cell Temperature Characterization

School **TEXAS ACADEMY OF MATHEMATICS AND S** Advisor **Fleming Donna**

Second Place: Brayden Dragoo Division: I 00219
 Project: **Dimpled Flight**

School **LIBERTY CHRISTIAN HIGH SCHOOL** Advisor **Michalek Jamie**

Second Place: Tyler Dondrea Division: I 00219
 Project: **Dimpled Flight**

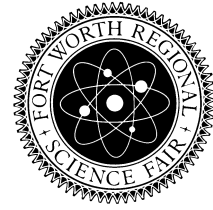
School **LIBERTY CHRISTIAN HIGH SCHOOL** Advisor **Michalek Jamie**

Third Place: Justin Leung Division: I 00026
 Project: **Measure and Mold: The Optimization of Orthotic Molding for Spinal Braces**

School **TEXAS ACADEMY OF MATHEMATICS AND S** Advisor **Fleming Donna**

Third Place: Aaron Chao Division: I 00026
 Project: **Measure and Mold: The Optimization of Orthotic Molding for Spinal Braces**

School **TEXAS ACADEMY OF MATHEMATICS AND S** Advisor **Fleming Donna**



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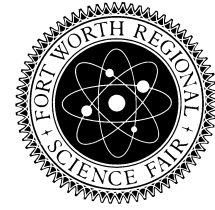
Winners Directory

Award: **Eng:Electrical and Mechanical Eng.**

First Place: Christopher Shen	Division: I	00129
Project: Electrowetting and Liquid Prism Beam-Steering Modules: Fabrication and Analysis		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Dakota Plesa	Division: I	00063
Project: Bring Sunshine into the Room		
School MIRABEAU B. LAMAR HIGH SCHOOL	Advisor Bond Rodney	

Third Place: Kaylee Brawler	Division: I	00093
Project: The Effects of Solar Energy Concentration on Photovoltaic Panel Efficiency		
School CROSSLAND 9TH GRADE CENTER	Advisor Morris Kayli	



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Winners Directory

Award: **Environmental Management**

First Place: Spencer Kendall

Division: I

00436

Project: **Analysing the effectiveness of applying the mathematical Fibonacci Sequence to modern solar panel designs.**

School **HARMONY SCHOOL OF NATURE & ATHLETI**

Advisor **Wakeley Dawn**

Second Place: Diana Dyer

Division: I

00457

Project: **The Effect of Mosquito Killing Sprays on Ladybugs**

School **NORTHSTAR HIGH SCHOOL**

Advisor **Knickerbocker Tabatha**

Third Place: Malik Johnson

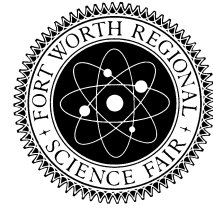
Division: I

00165

Project: **Surviving Seismically Induced Liquefaction**

School **EVERMAN HIGH SCHOOL**

Advisor **Larry**



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Winners Directory

Award: **Environmental Science**

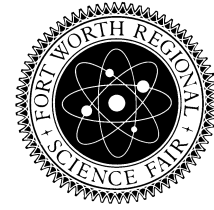
First Place: Celeste Munoz	Division: I	00083
Project: Oops a Spill		
School EVERMAN HIGH SCHOOL	Advisor Matlock Courtney	

Second Place: Lizzie Paulos	Division: I	00484
Project: Are We Acidifying Our Oceans?		
School LIBERTY CHRISTIAN HIGH SCHOOL	Advisor Michalek Jamie	

Second Place: Cameron Mutis	Division: I	00484
Project: Are We Acidifying Our Oceans?		
School LIBERTY CHRISTIAN HIGH SCHOOL	Advisor Michalek Jamie	

Third Place: Cera Masters	Division: I	00096
Project: How hot can you get?		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Pope Brandon	

Third Place: Alexandria Coward	Division: I	00096
Project: How hot can you get?		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Pope Brandon	



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Winners Directory

Award: **Mathematical Science**

First Place: Yang-Chieh Chen Division: I **00149**

Project: **A Novel Statistical Representation of Education and Development to Improve Overall Performance**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

First Place: Robert Tung Division: I **00149**

Project: **A Novel Statistical Representation of Education and Development to Improve Overall Performance**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

Second Place: Niranjan Balachandar Division: I **00471**

Project: **Novel Correlation between pH and Energy from a Monte Carlo Simulation of Tau Protein Folding**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

Third Place: Terrence Stilson Division: I **00144**

Project: **Analysis of Variations of the Fresnel Integral**

School **HARMONY SCHOOL OF INNOVATION HIGH**

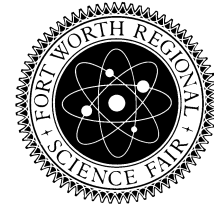
Advisor **Nickolson Sarah**

Third Place: Emran Shafaq Division: I **00144**

Project: **Analysis of Variations of the Fresnel Integral**

School **HARMONY SCHOOL OF INNOVATION HIGH**

Advisor **Nickolson Sarah**



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Winners Directory

Award: **Medicine and Health**

First Place: Anushree Agrawal Division: I 00042

Project: **Genetic Recombineering Techniques in the Manipulation of the Rba-1 Gene of C. elegans**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

Second Place: Kevin Shen Division: I 00428

Project: **Restraining Seizures: Roles of Somatostatin type-3 receptors and Melanin-concentrating hormone receptor 1 on Primary Cilia**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

Second Place: Bobby Wang Division: I 00428

Project: **Restraining Seizures: Roles of Somatostatin type-3 receptors and Melanin-concentrating hormone receptor 1 on Primary Cilia**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Fleming Donna**

Second Place: Valerie Huynh Division: I 00428

Project: **Restraining Seizures: Roles of Somatostatin type-3 receptors and Melanin-concentrating hormone receptor 1 on Primary Cilia**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

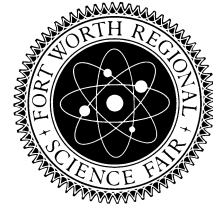
Advisor **Fleming Donna**

Third Place: Dolores 'Avery' Owens Division: I 00461

Project: **Bacteria Resistance to Antibiotics**

School **HARMONY SCHOOL OF INNOVATION HIGH**

Advisor **Nickolson Sarah**



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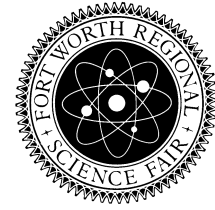
Winners Directory

Award: **Microbiology**

First Place: Lucy Cai	Division: I	00291
Project: The Inception of Infection II: The Antimicrobial and Synergistic Efficiency of Antibiotics Ethambutol and Isoniazid and Bacteriophage D29 in Treating a Model Organism for Tuberculosis		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Jocelyn Thomas	Division: I	00303
Project: Attack of the Superbugs		
School HARMONY SCHOOL OF INNOVATION HIGH	Advisor Singh Manisha	

Third Place: Jennifer Metu	Division: I	00289
Project: Mutant Of E. Coli Vs Wild Type E. Coli		
School TRINITY HIGH SCHOOL	Advisor Kamin Kim	



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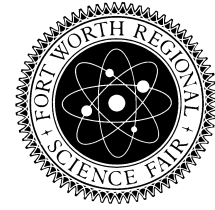
Winners Directory

Award: **Physics and Astronomy**

First Place: Alexander Lu	Division: I	00098
Project: Eddy Current Analysis on Scratched Vapor Deposited Silver.		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Aris Taychameekiatchai	Division: I	00347
Project: Relating X-ray Luminosity of AGNs to the total power of their Corresponding Black Holes		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Third Place: Noel Brownback	Division: I	00174
Project: Cymatics		
School AZLE HIGH SCHOOL	Advisor Amyett Monica	



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Winners Directory

Award: **Plant Sciences**

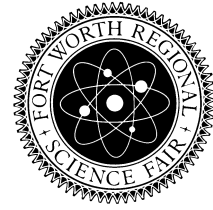
First Place: Shawn Ren	Division: I	00077
Project: How do plant cell wall modifications impact plant defense signals?		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Second Place: Andrew Chang	Division: I	00279
Project: Exploring Embryogenesis: the Transient Transformation in Cotton Plants Using em>Arabidopsis thaliana/em> genes		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Fleming Donna	

Third Place: Valeria Montemayor	Division: I	00378
Project: Gray is the Green		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Pope Brandon	

Third Place: Diego Perez	Division: I	00378
Project: Gray is the Green		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Pope Brandon	

Third Place: Evelyn Sanchez	Division: I	00378
Project: Gray is the Green		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Pope Brandon	



Fort Worth Regional Science Fair

Winners Directory

Award: **Animal Science**

First Place: Tandav Argula Division: **II** **00376**
 Project: **King of the Hill...umm...Tree?**

School **SUMMIT INTERNATIONAL MIDDLE SCHOOL** Advisor **Pope Brandon**

First Place: Blake Pope Division: **II** **00376**
 Project: **King of the Hill...umm...Tree?**

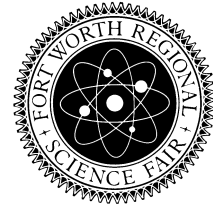
School **SUMMIT INTERNATIONAL MIDDLE SCHOOL** Advisor **Pope Brandon**

Second Place: Margarita Martinez Division: **II** **00209**
 Project: **The Effects of Creatine on the Mus Musculus Species Diet**

School **HARMONY SCHOOL OF NATURE & ATHLETI** Advisor **Wakeley Dawn**

Third Place: Benjamin Lillagore Division: **II** **00465**
 Project: **Let It Grow! Let It Grow! Let It Grow!**

School **ACTON MIDDLE SCHOOL** Advisor **Carpenter Scott**



Fort Worth Regional Science Fair

Winners Directory

Award: **Behavior and Social Sciences**

First Place: Avery Lyda

Division: **II**

00511

Project: **Bias vs. Our Brains**

School **E.A. YOUNG ACADEMY**

Advisor **Raymond Carol**

Second Place: Audrey Horn

Division: **II**

00260

Project: **The Effect of an Animal's Physical Characteristics on a Person's Perspective**

School **E.A. YOUNG ACADEMY**

Advisor **Raymond Carol**

Third Place: Riley Turner

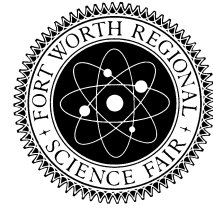
Division: **II**

00216

Project: **Manga Momentum**

School **E.A. YOUNG ACADEMY**

Advisor **Raymond Carol**



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Winners Directory

Award: **Biochemistry**

First Place: Macie Eggleston

Division: **II**

00196

Project: **Slimy Strawberries**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jones Patti**

Second Place: Jaci Price

Division: **II**

00307

Project: **Can homemade crayon basked lipstick have an effective alternative to store bought lipstick?**

School **LIBERTY CHRISTIAN SCHOOL**

Advisor **Searcy Colleen**

Third Place: Bryce Lindsey

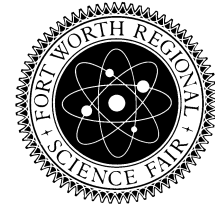
Division: **II**

00434

Project: **Yeast for a Feast**

School **LIBERTY CHRISTIAN SCHOOL**

Advisor **Searcy Colleen**

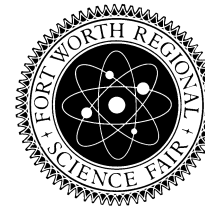


Fort Worth Regional Science Fair

Winners Directory

Award: **Cellular and Molecular Biology**

First Place: Valeria Escobar Project: Irradiation Mutations	Division: II	00246
School SUMMIT INTERNATIONAL MIDDLE SCHOOL	Advisor Pope Brandon	
First Place: Victoria Covarrubias Project: Irradiation Mutations	Division: II	00246
School SUMMIT INTERNATIONAL MIDDLE SCHOOL	Advisor Pope Brandon	
First Place: Jose A. Alcala Jr Project: Irradiation Mutations	Division: II	00246
School SUMMIT INTERNATIONAL MIDDLE SCHOOL	Advisor Pope Brandon	
Second Place: Ceyda Tunca Project: The Best Bacteria Killer	Division: II	00518
School HARMONY ACADEMY - EULESS MIDDLE SC	Advisor Samuel Theogaraj	
Third Place: Giles Fitzwilliams Project: Are your eyes playing tricks on you?	Division: II	00168
School HARMONY SCHOOL OF NATURE & ATHLETI	Advisor Wakeley Dawn	



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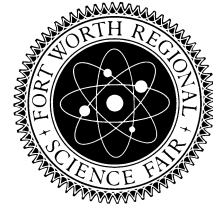
Winners Directory

Award: **Chemistry**

First Place: Rayni Skaggs	Division: II	00061
Project: Roundup from The Roots Up		
School ACTON MIDDLE SCHOOL	Advisor Carpenter Scott	

Second Place: Eileen Parker	Division: II	00220
Project: Rust Remedy		
School ACTON MIDDLE SCHOOL	Advisor Carpenter Scott	
Second Place: Katelyn Parker	Division: II	00220
Project: Rust Remedy		
School ACTON MIDDLE SCHOOL	Advisor Carpenter Scott	

Third Place: Erin Gehle	Division: II	00459
Project: Tarnish Remover!		
School E.A. YOUNG ACADEMY	Advisor Raymond Carol	



Fort Worth Regional Science Fair

Winners Directory

Award: **Computer Science**

First Place: Humberto De La Rocha Division: **II** **00495**

Project: **Which Network Wireless Provider Has the Least Percentage Call Drop Rate?**

br>

AT&T, Verizon, Sprint, Metro PCS, and others

School **CHRISTIAN COTTAGE PREP MIDDLE SCHOO**

Advisor **Willis Teri**

Second Place: Ranishia Pickett

Division: **II** **00021**

Project: **The Coded Dance**

School **GRANBURY MIDDLE SCHOOL**

Advisor **Lynch Andrea**

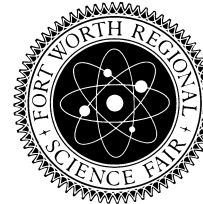
Third Place: Ashley West

Division: **II** **00249**

Project: **Games For Everyone**

School **HARMONY ACADEMY - EULESS MIDDLE SC**

Advisor **Ceylan Yavuz**



Fort Worth Regional Science Fair

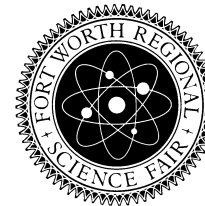
Winners Directory

Award: **Earth and Planetary Science**

First Place: Mireya Snyder	Division: II	00415
Project: Twisted Weather!		
School LIBERTY CHRISTIAN SCHOOL	Advisor Mouser Aaron	

Second Place: Lauren Wallace	Division: II	00147
Project: Investigating the Pioneer Anomaly		
School GRANBURY MIDDLE SCHOOL	Advisor Lynch Andrea	

Third Place: Taaseen Safyy	Division: II	00421
Project: How old are you?		
School HARMONY ACADEMY - EULESS MIDDLE SC	Advisor Parsons Sandi	



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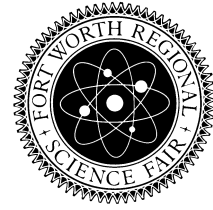
Winners Directory

Award: **Energy and Transportation**

First Place: Steven Fayne Speer	Division: II	00242
Project: Lift Vs. Drag		
School HARMONY ACADEMY - EULESS MIDDLE SC	Advisor Ceylan Yavuz	

Second Place: Saad Mohammed	Division: II	00169
Project: From Trash to Gas		
School HARMONY SCHOOL OF INNOVATION MIDD	Advisor Akay Emrah	

Third Place: Nicholas Brooks	Division: II	00125
Project: Which Substance Conducts Electricity the best during Electrolysis of Water?		
School ST. ELIZABETH ANN SETON CATHOLIC MID	Advisor Arnold Katherine	



Fort Worth Regional Science Fair

Winners Directory

Award: **Eng: Materials and Bioengineering**

First Place: Kaitlyn Malone

Division: **II**

00403

Project: **Which material makes the strongest concrete: Sand VS. Cornmeal**

School **HARMONY SCHOOL OF NATURE & ATHLETI**

Advisor **Cardwell Cory**

Second Place: Shan Pretheep

Division: **II**

00104

Project: **Roofing material**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Wheat Andrea**

Third Place: Hiba Khan

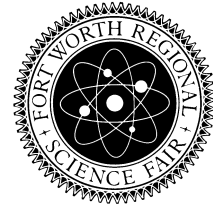
Division: **II**

00059

Project: **Nanotechnology Fold ,roll and stack your way to super strong materials**

School **HARMONY ACADEMY - EULESS MIDDLE SC**

Advisor **Samuel Theogaraj**



Fort Worth Regional Science Fair

Winners Directory

Award: **Eng:Electrical and Mechanical Eng.**

First Place: Calleigh Johnson

Division: **II**

00321

Project: **The Breaking Point**

School **E.A. YOUNG ACADEMY**

Advisor **Raymond Carol**

Second Place: Joshua Ramirez

Division: **II**

00238

Project: **Paper Circuits**

School **ST. JOHN APOSTLE CATHOLIC MIDDLE SCH**

Advisor **Tice Sally**

Third Place: Anish Omprakash

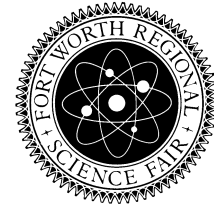
Division: **II**

00151

Project: **Generate electricity from heat: Seebeck effect**

School **HARMONY ACADEMY - EULESS MIDDLE SC**

Advisor **Samuel Theogaraj**

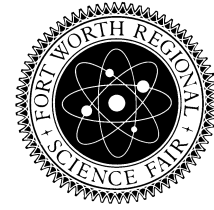


Fort Worth Regional Science Fair

Winners Directory

Award: **Environmental Management**

First Place: Ryder Ware Project: The comparison of grass growth during a drought season	Division: II	00075
School APPLIED LEARNING ACADEMY	Advisor Gordon Denise	
First Place: Noah Castro Project: The comparison of grass growth during a drought season	Division: II	00075
School APPLIED LEARNING ACADEMY	Advisor Gordon Denise	
First Place: Michael Holland Project: The comparison of grass growth during a drought season	Division: II	00075
School APPLIED LEARNING ACADEMY	Advisor Gordon Denise	
Second Place: Bryson Vera Project: Man vs Grasshopper: Chemical Warfare	Division: II	00480
School LIBERTY CHRISTIAN SCHOOL	Advisor Mouser Aaron	
Third Place: Lizzy Shuey Project: Keep It Warm	Division: II	00284
School LIBERTY CHRISTIAN SCHOOL	Advisor Mouser Aaron	

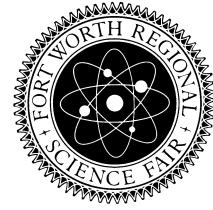


Fort Worth Regional Science Fair

Winners Directory

Award: **Environmental Science**

First Place: Laurel Champagne	Division: II	00035
Project: Green Clean: Effects of oil spill cleaning agents on aquatic plant life		
School WESTLAKE ACADEMY MIDDLE SCHOOL	Advisor Andova Lenka	
First Place: Joshua MacKaron	Division: II	00035
Project: Green Clean: Effects of oil spill cleaning agents on aquatic plant life		
School WESTLAKE ACADEMY MIDDLE SCHOOL	Advisor Andova Lenka	
Second Place: Alec McAllister	Division: II	00297
Project: Soap to Save the World: The Effects of Chemicals on Crude Oil		
School HARMONY SCHOOL OF NATURE & ATHLETICS	Advisor Cardwell Cory	
Third Place: Addison Limon	Division: II	00013
Project: Dirty Dirt!		
School AG ELDER ELEMENTARY	Advisor Lee	
Third Place: Ashton Taylor	Division: II	00013
Project: Dirty Dirt!		
School AG ELDER ELEMENTARY	Advisor Lee	



Fort Worth Regional Science Fair

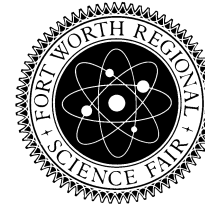
Winners Directory

Award: **Mathematical Science**

First Place: Jack Miller	Division: II	00360
Project: Puzzle Solving Algorithms		
School ACTON MIDDLE SCHOOL	Advisor Carpenter Scott	

Second Place: Hunter Cochran	Division: II	00131
Project: Blackjack card counting: Effective or not		
School WESTLAKE ACADEMY MIDDLE SCHOOL	Advisor Andova Lenka	

Third Place: Natalie Majerus	Division: II	00253
Project: Hollywood Hotties: The Golden Ratio		
School ST. ELIZABETH ANN SETON CATHOLIC MID	Advisor Arnold Katherine	
Third Place: Jassy DeRiso	Division: II	00253
Project: Hollywood Hotties: The Golden Ratio		
School ST. ELIZABETH ANN SETON CATHOLIC MID	Advisor Arnold Katherine	



Fort Worth Regional Science Fair

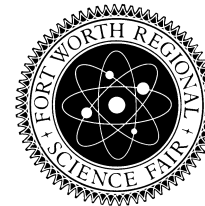
Winners Directory

Award: **Medicine and Health**

First Place: Taylor Shipman	Division: II	00355
Project: Caffeine Craze		
School NORTH JOSHUA ELEMENTARY	Advisor Jones Patti	

Second Place: Benjamin Guerrero	Division: II	00455
Project: Does exercise jog your memory?		
School NORTH JOSHUA ELEMENTARY	Advisor Jones Patti	

Third Place: Isabella Van Trease	Division: II	00368
Project: Music in Your Blood		
School LIBERTY CHRISTIAN SCHOOL	Advisor Searcy Colleen	

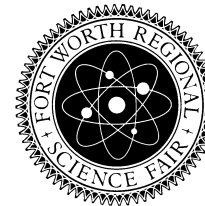


Fort Worth Regional Science Fair

Winners Directory

Award: **Microbiology**

First Place: Omar Obeid	Division: II	00328
Project: Do Native American Herbal Remedies Affect Bacterial Growth and Create a Model for Treating Waste Water Run-off from Large Animal Farms.		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Daisy	
Second Place: Christopher Johnson	Division: II	00133
Project: Studying the bacterial count on various vegetables		
School APPLIED LEARNING ACADEMY	Advisor Gordon Denise	
Second Place: Anezja Walker	Division: II	00133
Project: Studying the bacterial count on various vegetables		
School APPLIED LEARNING ACADEMY	Advisor Gordon Denise	
Third Place: Maria Risley	Division: II	00099
Project: To Chew Or Not To Chew		
School ST. JOHN APOSTLE CATHOLIC MIDDLE SCH	Advisor Tice Sally	



Fort Worth Regional Science Fair

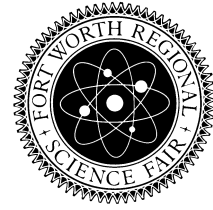
Winners Directory

Award: **Physics and Astronomy**

First Place: Grace Terrell	Division: II	00470
Project: Spectrophotometer Measurement of Absorption Peaks in Solutions		
School HOLY FAMILY CATHOLIC MIDDLE SCHOOL	Advisor Kimberly	

Second Place: Rebecca Fripp	Division: II	00162
Project: Magnetically Energized Dynamic Seals Magnetically Enhancing Valves and Lubricants		
School HARMONY SCHOOL OF INNOVATION MIDD	Advisor Bogush Bunyamin	

Third Place: Emily Baker	Division: II	00446
Project: Electromagnetisms Effect on Beta Decay Particle Tracts		
School E.A. YOUNG ACADEMY	Advisor Raymond Carol	



Fort Worth Regional Science Fair

Winners Directory

Award: **Plant Sciences**

First Place: Phillip Boltan	Division: II	00181
Project: Influence of Ionized Water on Plant Growth		
School HARMONY SCHOOL OF INNOVATION MIDD	Advisor Wheat Andrea	

Second Place: Christian Hines	Division: II	00327
Project: Effects of Soil on Germination Speed Black Gold Natural and Organic Potting Soil vs Botanicar Cocogro Organicbr /> Soil Fiber on Sweet Garden Organics Pole Bean Germination Speedbr /> br /> br />		
School CHRISTIAN COTTAGE PREP MIDDLE SCHOO	Advisor Willis Teri	

Third Place: Ashley Underwood	Division: II	00221
Project: Finding Faster Fertilizer		
School AG ELDER ELEMENTARY	Advisor Lee	