

Fort Worth Regional Science Fair

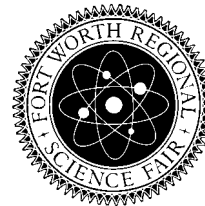
Winners Directory

Award: **ANIMAL SCIENCES**

Third Place: Pietra deBoer	Division: J	36636
Project: Which is More Effective, Wool Synthetic or Neoprene Saddle Pads, at Reducing Under Saddle Pad Temperature for Hoses		
School: CHRISTIAN COTTAGE PREP MIDDLE SCHOO	Advisor: Teri Willis	

Second Place: Ben Westbrook	Division: J	39026
Project: Keystone....Dominoes? A Study of the Centrochelys Sulcate		
School: North Texas Academy of Higher Learning - Middle	Advisor: Linda Chisholm	

First Place: Arnold Xu	Division: J	18673
Project: Hot Beetle Pulling Iron		
School: LIBERTY CHRISTIAN SCHOOL	Advisor: Aaron Mouser	

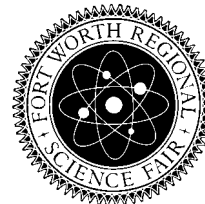


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Winners Directory

Award: **BEHAVIORAL & SOCIAL SCIENCES**

Third Place: Molly Monschke Project: Fonts to Remember School: LIBERTY CHRISTIAN SCHOOL	Division: J Advisor: Amy Funderburk	22870
Second Place: Harry Black Project: Letters vs. Numbers School: ST. JOSEPH CATHOLIC SCHOOL IN ARLINGT	Division: J Advisor: Shannon Connors	32950
First Place: Nolan Cox Project: Chirography versus Digital Note-taking: An Experimental Analysis School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Johnny Ha	35382

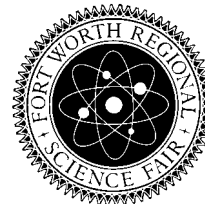


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Winners Directory

Award: **BIOCHEMISTRY**

Third Place: Jesse Rutherford	Division: J	38607
Project: How much DNA are in a cell?		
School: Sue Crouch Intermediate	Advisor: Bryan Michler	
Second Place: Amar Sharma	Division: J	37250
Project: The Dino Glow: Starring Pyrocystis fusiformis		
School: HARMONY SCHOOL OF INNOVATION MIDD	Advisor: Sandi Parsons	
First Place: Ruhani Ahluwalia	Division: J	35923
Project: Trojan Horse Delivers Lapatinib to Cancer Cells While It Limits Damage to Normal Cells		
School: HARMONY SCHOOL OF INNOVATION MIDD	Advisor: Sandi Parsons	

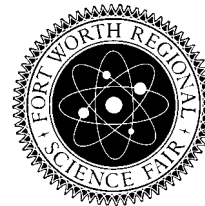


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Winners Directory

Award: **CHEMISTRY**

Third Place: Wafiqah Zubair Project: Antacid Effectivity School: HARMONY ACADEMY - EULESS MIDDLE SC	Division: J Advisor: Ramesh Subedi	37610
Second Place: Itay Rekhelis Project: Endothermic vs. Exothermic Reactions School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Johnny Ha	37580
First Place: Tatiana Streidl Project: Transference Terror: Are You Feeding Your Family VOCs? School: North Texas Academy of Higher Learning - Middle	Division: J Advisor: Linda Chisholm	38305

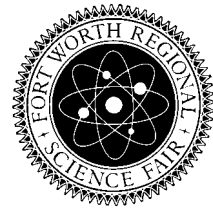


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Winners Directory

Award: **COMPUTER SCIENCE**

Third Place: Lucas Melson Project: Cell Tower Tracking School: LIBERTY CHRISTIAN SCHOOL	Division: J Advisor: Aaron Mouser	15336
Second Place: Thomas Holt Project: Cracking the Code - How safe is your password? School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	35848
First Place: Nikhil Thomas Project: Learning Rubik's Cube Solver School: Harmony Science Academy Carrollton-Middle Sch	Division: J Advisor: Sukran Cakiroglu	34636

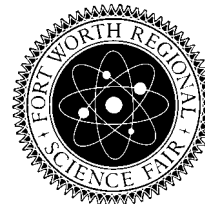


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Winners Directory

Award: **EARTH & PLANETARY SCIENCE**

Third Place: Kate Morton Project: The Impact of Tree Cover on PM2.5 Levels School: HOLY FAMILY CATHOLIC MIDDLE SCHOOL	Division: J Advisor: Kimberly Pierce	37811
Second Place: Gracie Nichols Project: Crystal Conclusions School: NORTH JOSHUA ELEMENTARY	Division: J Advisor: Patti Jones	37044
First Place: Emma Risley Project: Will It Kill It? School: ST. JOHN APOSTLE CATHOLIC MIDDLE SCH	Division: J Advisor: Sally Tice	37602

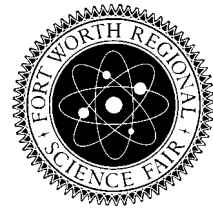


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Winners Directory

Award: **ENERGY & TRANSPORTATION**

Third Place: Rory Sumien Project: FROZEN FUN School: Loflin Middle School	Division: J Advisor: Toni Worden	36420
Second Place: Zach Salter Project: Mirror, Mirror School: LIBERTY CHRISTIAN SCHOOL	Division: J Advisor: Aaron Mouser	16286
First Place: Brandon Saucedo Project: Which detergent whitens the most? School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Johnny Ha	37874

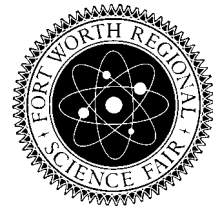


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Winners Directory

Award: **ENGINEERING: ELECTRICAL & MECHANICAL**

Third Place: Avery Hutka	Division: J	14917
Project: Bombs Away! A Ball Catapult		
School: ST. ELIZABETH ANN SETON CATHOLIC MID	Advisor: Katherine Arnold	
Third Place: Ava Roberts	Division: J	14917
Project: Bombs Away! A Ball Catapult		
School: ST. ELIZABETH ANN SETON CATHOLIC MID	Advisor: Katherine Arnold	
Second Place: Israel Cartagena	Division: J	35156
Project: Off the Radar		
School: ST. JOHN APOSTLE CATHOLIC MIDDLE SCH	Advisor: Sally Tice	
First Place: Rajveer Sagoo	Division: J	36994
Project: Fuse Rockets 2		
School: HARMONY SCHOOL OF INNOVATION MIDD	Advisor: Johnny Ha	

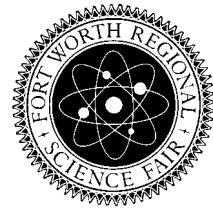


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Winners Directory

Award: **ENGINEERING: MATERIALS & BIOENGINEERING**

Third Place: Aidan Weller	Division: J	16801
Project: Which Metal Corrodes the Fastest in Tap Water with Salt Added		
School: LIBERTY CHRISTIAN SCHOOL	Advisor: Kate Daggett	
Second Place: Thu Le	Division: J	34908
Project: Absorption of Radiant Energy		
School: Harmony Science Academy Carrollton-Middle Sch	Advisor: Fatma Ince	
First Place: Michael Clark	Division: J	35518
Project: Bioplastic Decomposition		
School: HARMONY SCHOOL OF INNOVATION MIDD	Advisor: Sandi Parsons	

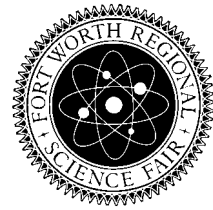


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Winners Directory

Award: ENVIRONMENTAL SCIENCES

Third Place: Johann Elano Project: U'v Been Blocked School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	37779
Second Place: Guangshun Chen Project: Dry Ice Electricity School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	35353
First Place: Ashar Khazi-Syed Project: Microbes: Giants of Power School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Johnny Ha	36120

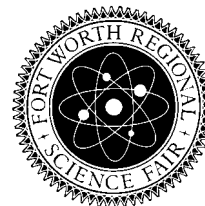


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Winners Directory

Award: **MATHEMATICAL SCIENCES**

Third Place: Jonathan Rositas Project: Dice Rolls & Probability School: ACTON MIDDLE SCHOOL	Division: J Advisor: Scott Carpenter	20104
Second Place: Sarra Khan Project: The Golden Ratio Effect School: HARMONY ACADEMY - EULESS MIDDLE SC	Division: J Advisor: Mary Dunn	38097
First Place: Irene Strzhemechny Project: Does the function in the logistic equation change the Feigenbaum portrait? School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	37454

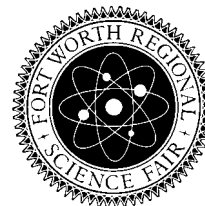


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Winners Directory

Award: **MEDICINE AND HEALTH SCIENCES**

Third Place: Margaret Cordero Project: Go Turmeric! Fight Bacteria and Fungus! School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Esen Akyol	28027
Second Place: Kaitlin Starnes Project: Bones of Steel? School: Irma Marsh Middle School	Division: J Advisor: Shelia Connor	35735
First Place: Rohit Rao Project: Dealing With Diabetes: Creating an Artificial Pancreas School: Harmony Science Academy Carrollton-Middle Sch	Division: J Advisor: Fatma Ince	36770

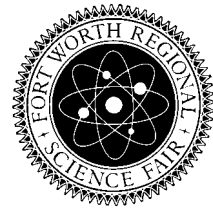


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Winners Directory

Award: **MICROBIOLOGY**

Third Place: Gianna deLeon Project: Your Berry Survival depends on it! School: ST. JOHN APOSTLE CATHOLIC MIDDLE SCH	Division: J Advisor: Sally Tice	38673
Second Place: Scout Skaggs Project: Rx Success School: ACTON MIDDLE SCHOOL	Division: J Advisor: Scott Carpenter	34696
Second Place: Marissa Ward Project: Rx Success School: ACTON MIDDLE SCHOOL	Division: J Advisor: Scott Carpenter	34696
First Place: Sydney Reardon Project: What's Lurking at Liberty? School: LIBERTY CHRISTIAN SCHOOL	Division: J Advisor: Amy Funderburk	19731

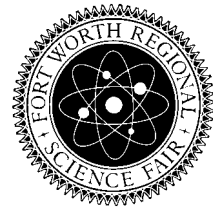


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Winners Directory

Award: **PHYSICS AND ASTRONOMY**

Third Place: Zane Sheffield Project: Repelled: Diamagnetic Personality School: Sheffield Academy	Division: J Advisor: Alison Sheffield	39425
Second Place: Tibor Hollmann Project: How airplanes fly? School: NORTH JOSHUA ELEMENTARY	Division: J Advisor: Patti Jones	37705
First Place: Aleena Teresa Project: Rocket Science 2.0 School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	33277
First Place: Kritisha Sharma Project: Rocket Science 2.0 School: HARMONY SCHOOL OF INNOVATION MIDD	Division: J Advisor: Sandi Parsons	33277



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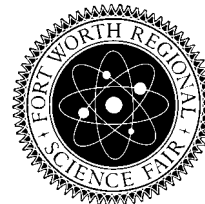
Winners Directory

Award: PLANT SCIENCES

Third Place: Tori Lain	Division: J	16607
Project: FRUIT WITH STRANDS		
School: LIBERTY CHRISTIAN SCHOOL	Advisor: Aaron Mouser	

Second Place: Esha Patel	Division: J	35347
Project: Hydroponics		
School: Harmony Science Academy Carrollton-Middle Sch	Advisor: Sukran Cakiroglu	

First Place: Blaine McCoy	Division: J	36246
Project: Which Has Most Efficacy on Leaf Count Production of Basil Plants: Miracle Gro Potting Soil with Tap Water or Miracle Gro Potting Soil with Epsom Salt or Miracle Gro Potting Soil with Miracle Gro Liquafeed		
School: CHRISTIAN COTTAGE PREP MIDDLE SCHOO	Advisor: Teri Willis	



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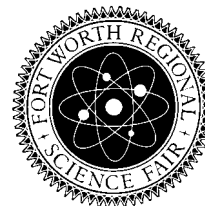
Winners Directory

Award: ANIMAL SCIENCES

Third Place: Thomas Maina	Division: S	37694
Project: Fish S.T.E.W: Swimming Through the Electromagnetic Waves		
School: HARMONY SCHOOL OF INNOVATION HIGH	Advisor: Bilal Yildirim	
Third Place: Sean Lee	Division: S	37694
Project: Fish S.T.E.W: Swimming Through the Electromagnetic Waves		
School: HARMONY SCHOOL OF INNOVATION HIGH	Advisor: Bilal Yildirim	

Second Place: Kasey Jones	Division: S	36772
Project: Powering up Artogeia Rapae with Ultraviolet Light		
School: EVERMAN HIGH SCHOOL	Advisor: Angela Collinsworth	

First Place: Blake Pope	Division: S	22366
Project: De Novo Assembly and Characterization of Holbrookia Transcriptome		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Omeshia Moffett	
First Place: Jose Alcala	Division: S	22366
Project: De Novo Assembly and Characterization of Holbrookia Transcriptome		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Gary Nicholson	

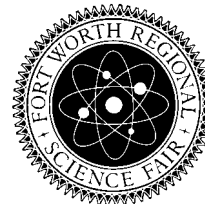


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Winners Directory

Award: **BEHAVIORAL & SOCIAL SCIENCES**

Third Place: Alexander Evans Project: What's that Taste?	Division: S	39382
School: NORTHSTAR HIGH SCHOOL	Advisor: Erin Jezek	
Second Place: Mitchell Meyers Project: Effect of Written Misdirection on Perception of Abstract Direction Symbols	Division: S	33121
School: Texas Academy of BioMedical Science	Advisor: Kathy Elliott	
Second Place: Khalid Al-Radaideh Project: Effect of Written Misdirection on Perception of Abstract Direction Symbols	Division: S	33121
School: Texas Academy of BioMedical Science	Advisor: Kathy Elliott	
Second Place: Ethan Zuniga Project: Effect of Written Misdirection on Perception of Abstract Direction Symbols	Division: S	33121
School: Texas Academy of BioMedical Science	Advisor: Kathy Elliott	
First Place: Ainsley McDonald-Boyer Project: Diagnostic Test for Dyslexia	Division: S	32607
School: AZLE HIGH SCHOOL	Advisor: Monica Amyett	



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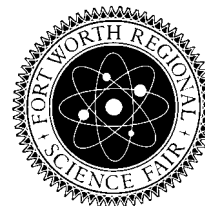
Winners Directory

Award: BIOCHEMISTRY

Third Place: Jagath Vytheeswaran	Division: S	27401
Project: Effects of Beta-Amyloid on Neuronal Primary Cilia in Alzheimer's Brain		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Third Place: Carolyn Huynh	Division: S	27401
Project: Effects of Beta-Amyloid on Neuronal Primary Cilia in Alzheimer's Brain		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Third Place: Maya Xia	Division: S	27401
Project: Effects of Beta-Amyloid on Neuronal Primary Cilia in Alzheimer's Brain		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

Second Place: Pranav Murugan	Division: S	27524
Project: Comparative Deformability and Microfluidic Perfusion of Human and Nonhuman Red Blood Cells		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

First Place: Abhishek Shah	Division: S	35265
Project: The effects of Glucose on the Behavior and Nervous System of C. elegans		
School: John H Guyer High School	Advisor: Brandy Guilford	



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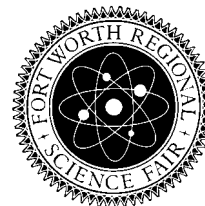
Winners Directory

Award: **CHEMISTRY**

Third Place: Kireet Pajjur	Division: S	37603
Project: Fluorescence Nanoparticles		
School: Flower Mound High School	Advisor: Kireet Pajjur	

Second Place: Liesl Krone	Division: S	35479
Project: Analyzing Spent Grains as a Sustainable Source of Feed		
School: GRANBURY HIGH SCHOOL	Advisor: Kayli Morris	

First Place: Mary Harshfield	Division: S	32590
Project: C the Difference		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
First Place: Lindsay Tito	Division: S	32590
Project: C the Difference		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
First Place: Kambryn Vera	Division: S	32590
Project: C the Difference		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	

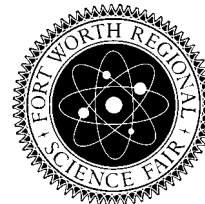


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Winners Directory

Award: **COMPUTER SCIENCE**

Third Place: Rick Zhang	Division: S	28260
Project: Machine Learning Data Analysis and Language Prediction Models		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Second Place: Michael Shen	Division: S	28010
Project: Modeling the Spread of Epidemics through Contact Networks		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Second Place: Billy Qian	Division: S	28010
Project: Modeling the Spread of Epidemics through Contact Networks		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
First Place: Michelle Yakubek	Division: S	27933
Project: Learning to Parse a Lower-Resource Language, Meitei, through Alignment with a Higher-Resource Language, Burmese		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

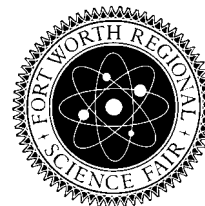


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Winners Directory

Award: EARTH & PLANETARY SCIENCE

<p>Third Place: Isabella Solis</p> <p>Project: Stabalizing the Red Tide Dinoflagellate Karenia Brevis</p> <p>School: HARMONY SCHOOL OF INNOVATION HIGH</p>	<p>Division: S</p> <p>Advisor: Bilal Yildirim</p>	<p>30293</p> <p>30293</p>
<p>Third Place: Gerrell Haynes</p> <p>Project: Stabalizing the Red Tide Dinoflagellate Karenia Brevis</p> <p>School: HARMONY SCHOOL OF INNOVATION HIGH</p>	<p>Division: S</p> <p>Advisor: Bilal Yildirim</p>	<p>30293</p>
<p>Second Place: Ajay Panda</p> <p>Project: Eco-morphology of Trinity River</p> <p>School: TEXAS ACADEMY OF MATHEMATICS AND S</p>	<p>Division: S</p> <p>Advisor: Samuel Earls</p>	<p>28315</p>
<p>First Place: Abhishek Mohan</p> <p>Project: Development of a Rapid, Reusable Sensing Mechanism for the Selective Identification of Heavy Metal Contaminants in Water: An Implementation of Functionalized Isotropic Silver Nanoparticles for Toxic Ion Detection</p> <p>School: TEXAS ACADEMY OF MATHEMATICS AND S</p>	<p>Division: S</p> <p>Advisor: Samuel Earls</p>	<p>25885</p>



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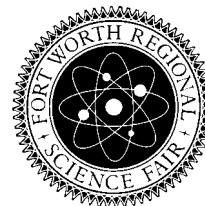
Winners Directory

Award: ENERGY & TRANSPORTATION

Third Place: Elaine Lee	Division: S	28395
Project: A Novel Inquiry: DFT Modeling of the Oxidation of Methane-to-Methanol via First-Row Transition Metal Catalysts		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

Second Place: Maahir Babwani	Division: S	15237
Project: Ox-static: Determining how varying levels of oxygen concentration will affect the voltage of an electrochemical cell.		
School: Colleyville Heritage High School	Advisor: Sonya Loughran	

First Place: Bihan Jiang	Division: S	25595
Project: Intelligent Design of Green Ionic Liquid Solvents for Pre- and Post-Combustion Removal of Nitrogen and Sulfur Containing Compounds from Fossil Fuels		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

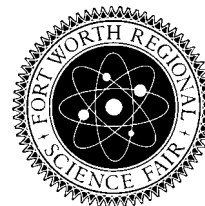


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Winners Directory

Award: **ENGINEERING: ELECTRICAL & MECHANICAL**

Third Place: Connor Menckhoff	Division: S	32487
Project: Make Your Own Low-Power AM Radio Transmitter		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
Third Place: Talib Kante	Division: S	32487
Project: Make Your Own Low-Power AM Radio Transmitter		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
Third Place: Matthew Jones	Division: S	32487
Project: Make Your Own Low-Power AM Radio Transmitter		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
Second Place: Landon Lewis	Division: S	32532
Project: Penetration Nation		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
Second Place: Luke Lewis	Division: S	32532
Project: Penetration Nation		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
Second Place: Breck Ortiz	Division: S	32532
Project: Penetration Nation		
School: LIBERTY CHRISTIAN HIGH SCHOOL	Advisor: Jamie Michalek	
First Place: Ria Upreti	Division: S	15411
Project: Burning Up: The Effects of Multiple Mirror Alignments on Heat Production		
School: Colleyville Heritage High School	Advisor: Sonya Loughran	



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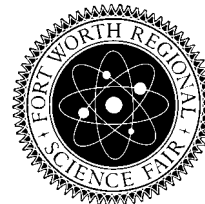
Winners Directory

Award: ENGINEERING: MATERIALS & BIOENGINEERING

Third Place: Michael Lee	Division: S	28252
Project: Multi-Principal Alloys: A Paradigm Shift in Alloy Design		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Third Place: Sanket Sane	Division: S	28252
Project: Multi-Principal Alloys: A Paradigm Shift in Alloy Design		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

Second Place: Sahil Patel	Division: S	28318
Project: The Synthesis of Novel Thermally Conductive, yet Electrically Insulative Ceramic Coatings		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

First Place: Ashwin Kumar	Division: S	27920
Project: RSM model optimization of the laser processing parameters on Ti-6Al-4V alloys to improve bio-compatibility		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

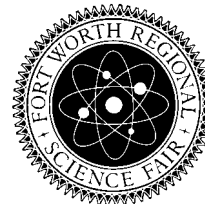


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Winners Directory

Award: ENVIRONMENTAL SCIENCES

Third Place: Margaret Cheng Project: DeCOMPOSTing: Assessing the Speed At Which Various Compostable Materials Decompose School: Colleyville Heritage High School	Division: S 15437 Advisor: Sonya Loughran
Second Place: Kendall Jones Project: Wind Turbine Blades Effect On Energy Output School: LIBERTY CHRISTIAN HIGH SCHOOL	Division: S 32587 Advisor: Jamie Michalek
Second Place: Kelly Becker Project: Wind Turbine Blades Effect On Energy Output School: LIBERTY CHRISTIAN HIGH SCHOOL	Division: S 32587 Advisor: Jamie Michalek
First Place: Sarah Zou Project: Sustainable Activated Carbon in Supercapacitors School: TEXAS ACADEMY OF MATHEMATICS AND S	Division: S 27213 Advisor: Samuel Earls

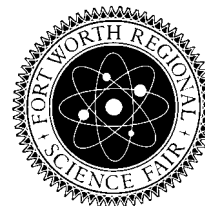


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Winners Directory

Award: **MATHEMATICAL SCIENCES**

Third Place: Tayler Pham Project: Consequences of External Pressures on Population School: SUMMIT INTERNATIONAL HIGH SCHOOL	Division: S Advisor: Gary Nicholson	20207
Third Place: Lauren Pham Project: Consequences of External Pressures on Population School: SUMMIT INTERNATIONAL HIGH SCHOOL	Division: S Advisor: Gary Nicholson	20207
Second Place: Alexander Moore Project: Baseball: The Correlation Between Statistics and Winning Percentage School: Colleyville Heritage High School	Division: S Advisor: Sonya Loughran	15421
First Place: Amber Lu Project: Signed Path Matrices and Oriented Hypergraphic Generalizations School: TEXAS ACADEMY OF MATHEMATICS AND S	Division: S Advisor: Samuel Earls	25805

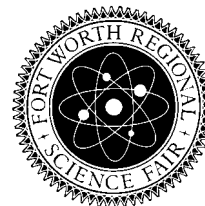


Fort Worth Regional Science Fair

Winners Directory

Award: **MEDICINE AND HEALTH SCIENCES**

Third Place: Alex Wu	Division: S	29220
Project: A Noninvasive Glucose Biosensor Based on High Quality 2-D WS2 Nanoparticles for in situ perspiration analysis		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	
Second Place: Taylor-Jade Higgins	Division: S	33651
Project: Veto the Mosquito		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Gary Nicholson	
Second Place: Mercy Obanigba	Division: S	33651
Project: Veto the Mosquito		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Gary Nicholson	
Second Place: Brittany Chapman	Division: S	33651
Project: Veto the Mosquito		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Gary Nicholson	
First Place: Amy Liu	Division: S	25864
Project: A New Candidate Target Gene for Breast Cancer Therapy: Identifying the Role of CISD3 in Cancer Cell Growth and Resistance to Oxidative Stress		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Samuel Earls	

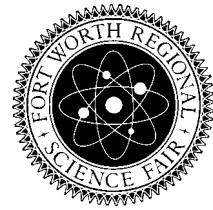


Fort Worth Regional Science Fair

Winners Directory

Award: **MICROBIOLOGY**

Third Place: Anela Gabeljic Project: All Natural	Division: S	37972
School: HARMONY SCHOOL OF INNOVATION HIGH	Advisor: Omer Dogan	
Third Place: Shrasta Timalsina Project: All Natural	Division: S	37972
School: HARMONY SCHOOL OF INNOVATION HIGH	Advisor: Omer Dogan	
Second Place: Jennifer Covington Project: The War You Cannot See: the interactions between E. coli and T4r bacteriophages in an environment involving raw meat	Division: S	15229
School: Colleyville Heritage High School	Advisor: Sonya Loughran	
First Place: Afeefah Khazi-Syed Project: Nano Today, Huge Tomorrow: Improving Antibiotic Drug Delivery for S. epidermidis Strains with a Novel CNT Dispersion	Division: S	36177
School: HARMONY SCHOOL OF INNOVATION HIGH	Advisor: Omer Dogan	

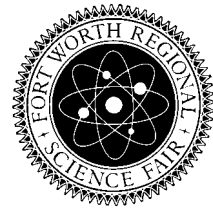


Fort Worth Regional Science Fair

Winners Directory

Award: **PHYSICS AND ASTRONOMY**

Third Place: Ronaldo Flores Project: Tesla Coil School: EVERMAN HIGH SCHOOL	Division: S 37937 Advisor: Angela Collinsworth
Second Place: Hannah Taylor Project: The Length of Light?? School: LIBERTY CHRISTIAN HIGH SCHOOL	Division: S 31420 Advisor: Jamie Michalek
Second Place: Addison Hudelson Project: The Length of Light?? School: LIBERTY CHRISTIAN HIGH SCHOOL	Division: S 31420 Advisor: Jamie Michalek
First Place: Chloe Ayers Project: Foiled: Testing Lift and Drag on Airfoils in a Wind Tunnel School: Colleyville Heritage High School	Division: S 16143 Advisor: Sonya Loughran



Fort Worth Regional Science Fair

Winners Directory

Award: **PLANT SCIENCES**

Third Place: Dave Hernandez Project: Planting Fuel School: HARMONY SCHOOL OF INNOVATION HIGH	Division: S Advisor: Omer Dogan	38047
Second Place: Hunter Meroney Project: THERMAL SHOCK and the effects on aquatic plants School: GRANBURY HIGH SCHOOL	Division: S Advisor: Kayli Morris	31452
First Place: Michael Geng Project: The Analysis of a Novel Lignin Synthesized from Caffeyl Alcohol School: TEXAS ACADEMY OF MATHEMATICS AND S	Division: S Advisor: Samuel Earls	31409