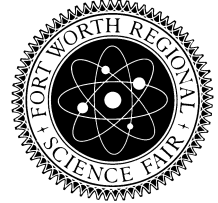


Fort Worth Regional Science Fair Winners Directory

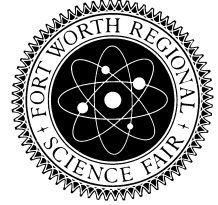


Award: **American Industrial Hygiene Association North Texas Section**

First Place: Anthony Guerrero	Division: J	Category: Medicine & Health Sciences	134496
Project: The Hazy World of Vaping			
School: Harmony School Of Innovation Middle School (For		Advisor: Rhonda Reinicke	

Fort Worth Regional Science Fair

Winners Directory

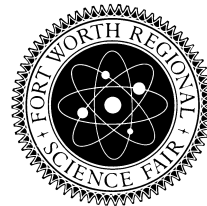


Award: **American Industrial Hygiene Association North Texas Section**

First Place: Manasa Sripati	Division: S	Category: Medicine & Health Sciences	110304
Project: Biosensor			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Fort Worth Regional Science Fair

Winners Directory



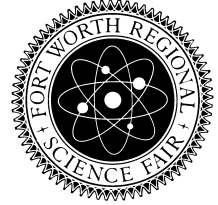
Award: American Meteorological Society & NWS - N Texas Chapter

First Place: Ashar Khazi-Syed	Division: S	Category: Earth & Planetary Sciences	135790
Project: MDCs Take The Quantum Leap: Application of Novel Materials in MDCs			
School: Harmony School Of Innovation High School (Fort		Advisor: Mark Denman	

Second Place: Lily Huynh	Division: S	Category: Earth & Planetary Sciences	134053
Project: Difference in Coliform Bacteria Degradation by Mycoremediation versus Phytoremediation			
School: Summit International High School		Advisor: Gabriel Diaz-Gregorich	
Second Place: Daniela Covarrubias	Division: S	Category: Earth & Planetary Sciences	134053
Project: Difference in Coliform Bacteria Degradation by Mycoremediation versus Phytoremediation			
School: Summit International High School		Advisor: Gabriel Diaz-Gregorich	

Fort Worth Regional Science Fair

Winners Directory

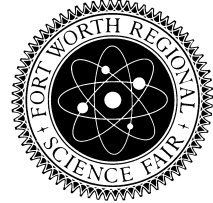


Award: **American Psychological Association**

First Place: Arisa Jinnah	Division: J	Category: Behavioral & Social Sciences	134658
Project: Generational Community Service			
School: Trivium Academy		Advisor: Sarah Jones	

Fort Worth Regional Science Fair

Winners Directory

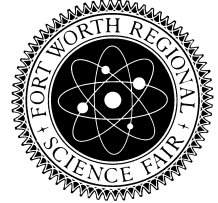


Award: American Psychological Association - Fort Worth Chapter

First Place: Rishin Kesarla	Division: S	Category: Behavioral & Social Sciences	122620
Project: Participatory Design of Socially Assistive Robots for Children on the Autism Spectrum			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Second Place: Mia Stertz	Division: S	Category: Behavioral & Social Sciences	112542
Project: Red Light Therapy			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	
Second Place: Illiyan Bardai	Division: S	Category: Behavioral & Social Sciences	112542
Project: Red Light Therapy			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Fort Worth Regional Science Fair Winners Directory



Award: **American Society for Materials**

First Place: Hubert Yang Division: **S** Category: **Engineering: Materials & Bi** **128791**

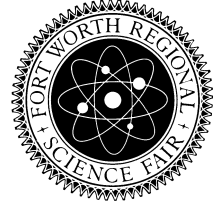
Project: **Synthesis of Ultra-sensitive MoS₂ Piezoelectric Pressure Sensors**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

Fort Worth Regional Science Fair

Winners Directory



Award: American Society for Quality and Medtronic

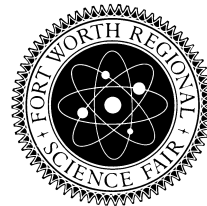
First Place: Esther Fripp	Division: J	Category: Computer Science	137128
Project: Slides in the summertime			
School: Harmony Science Academy Carrollton-Middle Sch		Advisor: Thanh Nguyen	

Second Place: Pavan Ahluwalia	Division: J	Category: Computer Science	129845
Project: The Power of Garlic			
School: Harmony School Of Innovation Middle School (For		Advisor: Deborah Epps	

Third Place: Colin Schechter	Division: J	Category: Computer Science	135765
Project: Measuring drift in an FLL robot			
School: Denton Classical Educational Cooperative - Ms		Advisor: Bridget Banas Schechter	

Fort Worth Regional Science Fair

Winners Directory



Award: American Society for Quality and Medtronic

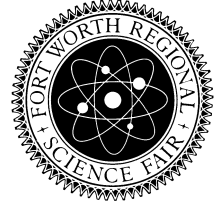
First Place: Julia Camacho	Division: S	Category: Earth & Planetary Sciences	125272
Project: DeepGlio: A Novel Computational Pipeline for the Segmentation, Classification, and Characterization of Low and High-Grade Brain Tumors			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Second Place: Pranathi Pilla	Division: S	Category: Earth & Planetary Sciences	124673
Project: Low Cost and Sensitive Digital Inline Holographic Microscopy on Microbial Fuel Cells (MFCs) for Rapid Detection of Pathogenic Microbes			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Third Place: Ashar Khazi-Syed	Division: S	Category: Earth & Planetary Sciences	135790
Project: MDCs Take The Quantum Leap: Application of Novel Materials in MDCs			
School: Harmony School Of Innovation High School (Fort		Advisor: Mark Denman	

Fort Worth Regional Science Fair

Winners Directory



Award: **Association of Women Geoscientists**

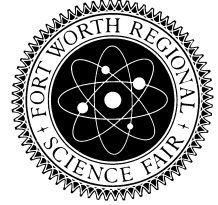
First Place: Caroline Gao Division: **S** Category: **Earth & Planetary Sciences** **110445**

Project: **Bioleaching of metals from waste mobile phones by *Aspergillus niger***

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

Fort Worth Regional Science Fair Winners Directory

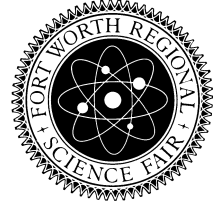


Award: **Charlie Mary Noble Award**

First Place: Anna Heitz	Division: J	Category: Physics & Astronomy	107742
Project: Does the moon effect how many stars we can see?			
School: St. Elizabeth Ann Seton Catholic Middle School		Advisor: Katherine Arnold	

Fort Worth Regional Science Fair

Winners Directory

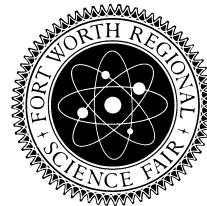


Award: **Delbert E. Lawry Award**

First Place: Lance Browning	Division: J	Category: Energy & Transportation	130320
Project: The best screw head type			
School: Graham Junior High School		Advisor: Jenna Baker	

Second Place: Nickolas Weaver	Division: J	Category: Energy & Transportation	136478
Project: Pinwheel Power: Which pinwheel will spin the fastest?			
School: S.H. Crowley Intermediate School		Advisor: Janita Moravits	

Fort Worth Regional Science Fair Winners Directory



Award: **Delbert E. Lawry Award**

First Place: Weilun Sun Division: S Category: **Physics & Astronomy** **122503**

Project: **FireBot - An Innovative Search and Rescue Robotic Vehicle Designed for High-Temperature Firefighting**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

First Place: Siddharth Thakur Division: S Category: **Physics & Astronomy** **122503**

Project: **FireBot - An Innovative Search and Rescue Robotic Vehicle Designed for High-Temperature Firefighting**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

Second Place: Jay Upadhyaya Division: S Category: **Physics & Astronomy** **110844**

Project: **An Energy Scavenging Thermoelectric Microprocessor Implementation for the Conversion of Waste Heat to Electrical Power**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

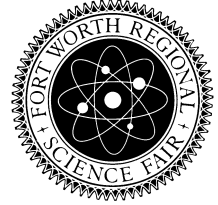
Second Place: Ashwin Katta Division: S Category: **Physics & Astronomy** **110844**

Project: **An Energy Scavenging Thermoelectric Microprocessor Implementation for the Conversion of Waste Heat to Electrical Power**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

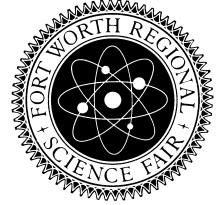
Fort Worth Regional Science Fair Winners Directory



Award: **Fort Worth Audubon Society**

First Place: Ralph Yraola	Division: J	Category: Earth & Planetary Sciences	135067
Project: MicroPlastic Collection			
School: Harmony School Of Innovation Middle School (For		Advisor: Karen Moore	

Fort Worth Regional Science Fair Winners Directory

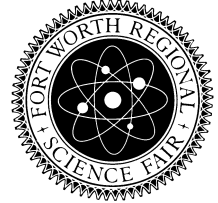


Award: **Fort Worth Audubon Society**

First Place: Scout Skaggs	Division: S	Category: Earth & Planetary Sciences	124277
Project: Biodegradable Plastics			
School: Granbury High School		Advisor: Priscilla Lumbreras	

Fort Worth Regional Science Fair

Winners Directory

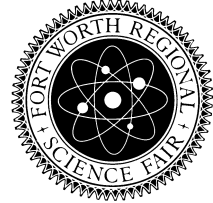


Award: **Institute of Electrical and Electronics Engineers, Fort Worth**

First Place: Esther Fripp	Division: J	Category: Energy & Transportation	137128
Project: Slides in the summertime			
School: Harmony Science Academy Carrollton-Middle Sch		Advisor: Thanh Nguyen	

Fort Worth Regional Science Fair

Winners Directory



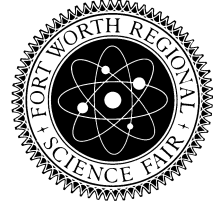
Award: **Institute of Electrical and Electronics Engineers, Fort Worth**

First Place: Sumit Chakraborty	Division: S	Category: Engineering: Electrical & M	126876
Project: Acoustic Signal Modulation and Logic Operation Utilizing Phononic Crystals			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Second Place: Ayesha Azhar	Division: S	Category: Engineering: Electrical & M	114099
Project: Piezoelectricity vs Miniture Turbine in an Intake Manifold System			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Fort Worth Regional Science Fair

Winners Directory

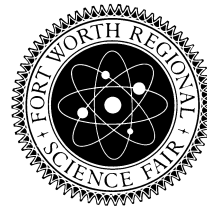


Award: Lemelson Early Inventor Award

First Place: Madilyn Wilde	Division: J	Category: Engineering: Materials & Bi	131574
Project: Shirt Assistant			
School: Graham Junior High School		Advisor: Jeanne Richardson	
First Place: Abbie Helm	Division: J	Category: Engineering: Materials & Bi	131574
Project: Shirt Assistant			
School: Graham Junior High School		Advisor: Robert Sides	

Fort Worth Regional Science Fair

Winners Directory



Award: Lockheed Martin Aeronautics Company

First Place: Trevor Simon Division: J Category: **Engineering: Materials & Bi** 134498
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

First Place: Austin Guzzardo Division: J Category: **Engineering: Materials & Bi** 134498
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

Second Place: Mercedes Ramirez Division: J Category: **Engineering: Materials & Bi** 136071
Project: **Does Oil Paint Quality Matter?**

School: **St. John Apostle Catholic Middle School** Advisor: **Kevin Hathaway**

Third Place: Abbie Helm Division: J Category: **Engineering: Materials & Bi** 131574
Project: **Shirt Assistant**

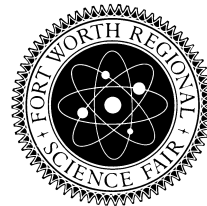
School: **Graham Junior High School** Advisor: **Robert Sides**

Third Place: Madilyn Wilde Division: J Category: **Engineering: Materials & Bi** 131574
Project: **Shirt Assistant**

School: **Graham Junior High School** Advisor: **Jeanne Richardson**

Fort Worth Regional Science Fair

Winners Directory



Award: **Lockheed Martin Aeronautics Company**

First Place: Weilun Sun Division: S Category: **Physics & Astronomy** **122503**

Project: **FireBot - An Innovative Search and Rescue Robotic Vehicle Designed for High-Temperature Firefighting**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

First Place: Siddharth Thakur Division: S Category: **Physics & Astronomy** **122503**

Project: **FireBot - An Innovative Search and Rescue Robotic Vehicle Designed for High-Temperature Firefighting**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

Second Place: Julia Camacho Division: S Category: **Physics & Astronomy** **125272**

Project: **DeepGlio: A Novel Computational Pipeline for the Segmentation, Classification, and Characterization of Low and High-Grade Brain Tumors**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

Third Place: Ashwin Katta Division: S Category: **Physics & Astronomy** **110844**

Project: **An Energy Scavenging Thermoelectric Microprocessor Implementation for the Conversion of Waste Heat to Electrical Power**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

Third Place: Jay Upadhyaya Division: S Category: **Physics & Astronomy** **110844**

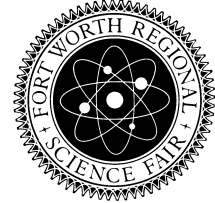
Project: **An Energy Scavenging Thermoelectric Microprocessor Implementation for the Conversion of Waste Heat to Electrical Power**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

Fort Worth Regional Science Fair

Winners Directory



Award: Lockheed Martin Leadership Association

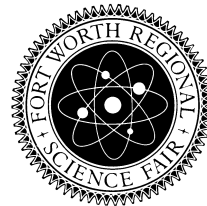
First Place: Sumodha Pokhrel	Division: J	Category: Animal Sciences	134656
Project: Harnessing A New Energy Source: Using Biomasses To Produce Biogas			
School: Harmony School Of Innovation Middle School (For		Advisor: Rhonda Reinicke	

Second Place: Esther Fripp	Division: J	Category: Animal Sciences	137128
Project: Slides in the summertime			
School: Harmony Science Academy Carrollton-Middle Sch		Advisor: Thanh Nguyen	

Third Place: Timothy Stuart	Division: J	Category: Animal Sciences	136003
Project: Effects of Rocket Acceleration on Arthropods and its Applications in Space Travel			
School: Tams Middle School Aspire Fair		Advisor: Russ Stukel	

Fort Worth Regional Science Fair

Winners Directory



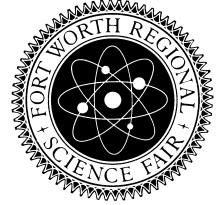
Award: Lockheed Martin Leadership Association

First Place: Sai Sarnala	Division: S	Category: Earth & Planetary Sciences	127760
Project: Genetic Modification of Medicago sativa plants to increase the production of proanthocyanidins in the epidermal tissues			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Second Place: Emily Zhou	Division: S	Category: Earth & Planetary Sciences	120641
Project: Utilizing mitochondrial dysfunction and mitophagy in Caenorhabditis elegans to create a predictive model for cancer treatment			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Third Place: Ashar Khazi-Syed	Division: S	Category: Earth & Planetary Sciences	135790
Project: MDCs Take The Quantum Leap: Application of Novel Materials in MDCs			
School: Harmony School Of Innovation High School (Fort		Advisor: Mark Denman	

Fort Worth Regional Science Fair Winners Directory

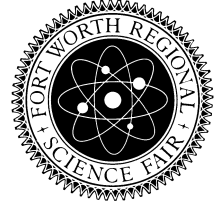


Award: **Mu Alpha Theta**

First Place: Rhythm Garg	Division: S	Category: Mathematical Sciences	120987
Project: Coordinating Fleet of Autonomous Drones: Geodesics in Configuration Spaces of Connected Manifolds			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Fort Worth Regional Science Fair

Winners Directory



Award: **National Aeronautics and Space Administration**

First Place: Athena Lorenzen Division: S Category: **Earth & Planetary Sciences** 110637

Project: **The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

First Place: Saher Pirani Division: S Category: **Earth & Planetary Sciences** 110637

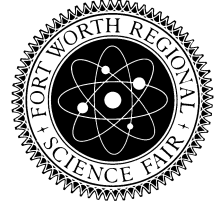
Project: **The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions**

School: **Colleyville Heritage High School**

Advisor: **Sonya Loughran**

Fort Worth Regional Science Fair

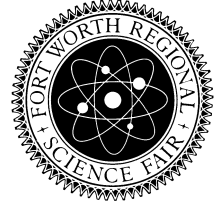
Winners Directory



Award: National Oceanic and Atmospheric Administration

First Place: Andrew Looney	Division: J	Category: Environmental Management	128142
Project: Coral Bleach Research Drone			
School: Jerry Knight Stem Academy		Advisor: Justin Maenner	
First Place: Jeffrey Townsend	Division: J	Category: Environmental Management	128142
Project: Coral Bleach Research Drone			
School: Jerry Knight Stem Academy		Advisor: Justin Maenner	
First Place: Aiden Bond	Division: J	Category: Environmental Management	128142
Project: Coral Bleach Research Drone			
School: Jerry Knight Stem Academy		Advisor: Justin Maenner	

Fort Worth Regional Science Fair Winners Directory



Award: **RICOH Sustainable Development Award**

First Place: Emma Balandran

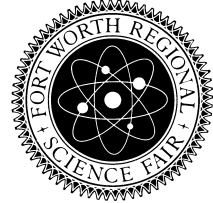
Division: **J** Category: **Environmental Management** **136261**

Project: **Hydro Clean Safe. Potable.**

School: **St. John Apostle Catholic Middle School**

Advisor: **Kevin Hathaway**

Fort Worth Regional Science Fair Winners Directory



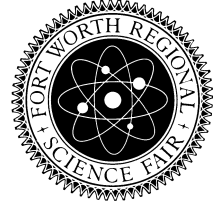
Award: **Society of Allied Weight Engineers**

First Place: Srius Khanal	Division: J	Category: Engineering: Electrical & M	135125
Project: Can weight affect energy?			
School: Harmony School Of Innovation Middle School (For		Advisor: Karen Moore	
First Place: Seth McLain	Division: J	Category: Engineering: Electrical & M	135125
Project: Can weight affect energy?			
School: Harmony School Of Innovation Middle School (For		Advisor: Karen Moore	
First Place: Emmanuel Lighthart	Division: J	Category: Engineering: Electrical & M	135125
Project: Can weight affect energy?			
School: Harmony School Of Innovation Middle School (For		Advisor: Karen Moore	

Second Place: Barrett Land	Division: J	Category: Engineering: Electrical & M	108945
Project: Whatever Floats Your Boat			
School: Liberty Christian School M S		Advisor: Loren Gallo	

Fort Worth Regional Science Fair

Winners Directory

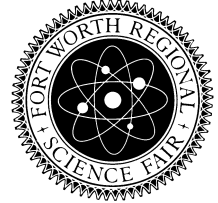


Award: **Society of Allied Weight Engineers**

First Place: Keegan Vogel	Division: S	Category: Engineering: Electrical & M	135809
Project: Under Pressure			
School: Northstar High School		Advisor: Kimberly Desrosiers	

Second Place: Erion Halili	Division: S	Category: Engineering: Electrical & M	135372
Project: Tuned Mass Damper			
School: Granbury High School		Advisor: Priscilla Lumbreras	

Fort Worth Regional Science Fair Winners Directory

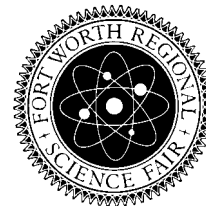


Award: **Society of Flight Test Engineers - Aerospace Achievement Award**

First Place: Moksh Nirvaan	Division: S	Category: Computer Science	128430
Project: An Adaptive System to Enable Large-scale Drone Operations in the Urban Landscape			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Fort Worth Regional Science Fair

Winners Directory



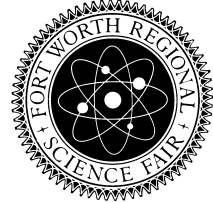
Award: **Stockholm Junior Water Prize**

First Place: Saher Pirani	Division: S	Category: Plant Sciences	110637
Project: The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	
First Place: Athena Lorenzen	Division: S	Category: Plant Sciences	110637
Project: The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

First Place: Ashley Zhu	Division: S	Category: Earth & Planetary Sciences	111036
Project: Eradication of E. Coli and Other Coliforms from Contaminated Water			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

First Place: Saskia Hamilton	Division: S	Category: Plant Sciences	112109
Project: Heard You Got That Drip: Portable, Efficient, and Cost-Friendly Colorimetric Assay of Lead Nitrate in Water Sources			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Fort Worth Regional Science Fair Winners Directory



Award: **United States Air Force (USAF)**

First Place: Trevor Simon Division: **S&** Category: **Environmental Management** **134498**
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

First Place: Austin Guzzardo Division: **S&** Category: **Environmental Management** **134498**
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

First Place: Timothy Stuart Division: **S&** Category: **Environmental Management** **136003**
Project: **Effects of Rocket Acceleration on Arthropods and its Applications in Space Travel**

School: **Tams Middle School Aspire Fair** Advisor: **Russ Stukel**

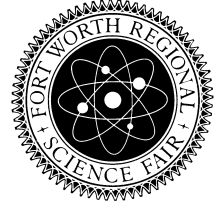
First Place: Nishi Datla Division: **S&** Category: **Environmental Management** **110463**
Project: **Carbon Die-Oxide**

School: **Colleyville Heritage High School** Advisor: **Sonya Loughran**

First Place: Moksh Nirvaan Division: **S&** Category: **Environmental Management** **128430**
Project: **An Adaptive System to Enable Large-scale Drone Operations in the Urban Landscape**

School: **Texas Academy Of Mathematics And Sciences H S** Advisor: **Samuel Earls**

Fort Worth Regional Science Fair Winners Directory



Award: **US Metric Association**

First Place: Hubert Yang Division: **S&** Category: **Engineering: Materials & Bi** 128791

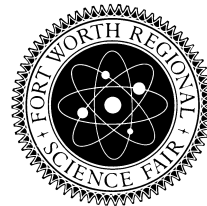
Project: **Synthesis of Ultra-sensitive MoS₂ Piezoelectric Pressure Sensors**

School: **Texas Academy Of Mathematics And Sciences H S**

Advisor: **Samuel Earls**

Fort Worth Regional Science Fair

Winners Directory



Award: **US Navy**

First Place: Trevor Simon Division: **J** Category: **Engineering: Electrical & M** **134498**
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

First Place: Austin Guzzardo Division: **J** Category: **Engineering: Electrical & M** **134498**
Project: **Aerospike**

School: **Harmony School Of Innovation Middle School (For** Advisor: **Rhonda Reinicke**

First Place: Julia Varghese Division: **J** Category: **Engineering: Electrical & M** **118992**
Project: **Piaget's theory of conservation**

School: **Trivium Academy** Advisor: **Sarah Jones**

First Place: Teena Maliakal Division: **J** Category: **Engineering: Electrical & M** **136751**
Project: **Vitamins: Does Brand Matter?**

School: **Harmony Science Academy Carrollton-Middle Sch** Advisor: **Mehmet Biter**

First Place: Ian Schechter Division: **J** Category: **Engineering: Electrical & M** **135763**
Project: **The Effects of FLL Robot Turning Under Different Programming Conditions**

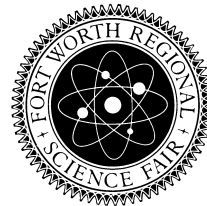
School: **Denton Classical Educational Cooperative - Ms** Advisor: **Bridget Banas Schechter**

First Place: Sean Watson Division: **J** Category: **Engineering: Electrical & M** **136007**
Project: **Utilizing Organic Fuel Cells to Generate Sustainable Power Output**

School: **Tams Middle School Aspire Fair** Advisor: **Russ Stukel**

Fort Worth Regional Science Fair

Winners Directory



Award: **US Navy**

First Place: Audrey Brugman	Division: S	Category: Computer Science	109552
Project: Oil spills with Oil Eating Bacteria			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

First Place: Luis Arciniega	Division: S	Category: Computer Science	136078
Project: Incremental Learning in Artificial Intelligence: Developing a Machine Learning Model of Stephen Critoph's The World's Hardest Game Series for the Assessment of Level Solvability through			
School: Castleberry High School		Advisor: Denise Fisher	

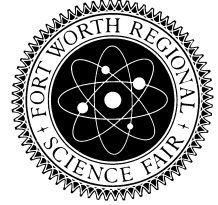
First Place: Rhythm Garg	Division: S	Category: Computer Science	120987
Project: Coordinating Fleet of Autonomous Drones: Geodesics in Configuration Spaces of Connected Manifolds			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

First Place: Ashar Khazi-Syed	Division: S	Category: Computer Science	135790
Project: MDCs Take The Quantum Leap: Application of Novel Materials in MDCs			
School: Harmony School Of Innovation High School (Fort		Advisor: Mark Denman	

First Place: Moksh Nirvaan	Division: S	Category: Computer Science	128430
Project: An Adaptive System to Enable Large-scale Drone Operations in the Urban Landscape			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	

Fort Worth Regional Science Fair

Winners Directory



Award: **USAID Science Champion Award**

First Place: MaryLyndell Graham

Division: **S&** Category: **Environmental Management** **136149**

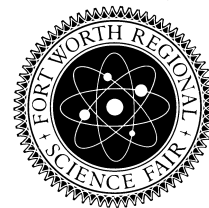
Project: **Recycle for Thirst**

School: **Graham Junior High School**

Advisor: **Robert Sides**

Fort Worth Regional Science Fair

Winners Directory



Award: **Water Environment Association of Texas**

Honorable Mention: Chloe Appling	Division: J	Category: Earth & Planetary Sciences	117614
Project: To Purify or Not : Featuring Charcoal			
School: Liberty Christian School M S		Advisor: Kate Daggett	

Honorable Mention: Colter Johnson	Division: J	Category: Earth & Planetary Sciences	131567
Project: Save the Apples			
School: Graham Junior High School		Advisor: Jenna Baker	

Honorable Mention: Ralph Yraola	Division: J	Category: Earth & Planetary Sciences	135067
Project: MicroPlastic Collection			
School: Harmony School Of Innovation Middle School (For		Advisor: Karen Moore	

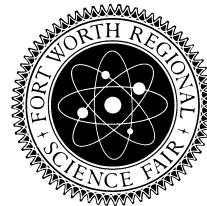
First Place: Shriya Menon	Division: J	Category: Earth & Planetary Sciences	128650
Project: Fruitful Discoveries			
School: Harmony School Of Innovation Middle School (For		Advisor: Deborah Epps	

Second Place: Ryan Carr	Division: J	Category: Earth & Planetary Sciences	109638
Project: Which type of water filter is most effective at filtering out organisms in the water?			
School: St. Elizabeth Ann Seton Catholic Middle School		Advisor: Katherine Arnold	

Third Place: Kaylin Jow	Division: J	Category: Earth & Planetary Sciences	130489
Project: Water Filtration			
School: Harmony School Of Innovation Middle School (For		Advisor: Deborah Epps	

Fort Worth Regional Science Fair

Winners Directory



Award: **Water Environment Association of Texas**

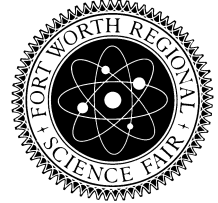
First Place: Saskia Hamilton	Division: S	Category: Plant Sciences	112109
Project: Heard You Got That Drip: Portable, Efficient, and Cost-Friendly Colorimetric Assay of Lead Nitrate in Water Sources			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Second Place: Saher Pirani	Division: S	Category: Plant Sciences	110637
Project: The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Second Place: Athena Lorenzen	Division: S	Category: Plant Sciences	110637
Project: The Analysis of Opuntia Ficus-Indica as a Biocoagulant in Water Purification Under Varying PH Conditions			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Third Place: Ashley Zhu	Division: S	Category: Plant Sciences	111036
Project: Eradication of E. Coli and Other Coliforms from Contaminated Water			
School: Colleyville Heritage High School		Advisor: Sonya Loughran	

Fort Worth Regional Science Fair Winners Directory



Award: **Yale Science & Engineering Association (YSEA)**

First Place: Pranathi Pilla	Division: S	Category: Engineering: Materials & Bi	124673
Project: Low Cost and Sensitive Digital Inline Holographic Microscopy on Microbial Fuel Cells (MFCs) for Rapid Detection of Pathogenic Microbes			
School: Texas Academy Of Mathematics And Sciences H S		Advisor: Samuel Earls	