

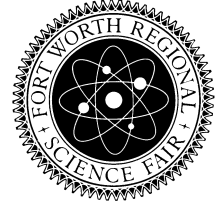
Fort Worth Regional Science Fair

Winners Directory

Award: **Animal Science**

First Place: Rangadass Priyanka	Division: I	40191
Project: Are Bps-free Products Really Safer Than Bpa Containing Plastics?		
School Summit International	Advisor Brendon Pope	

Second Place: Owen D. Oltheten	Division: I	30132
Project: Ant Farm Environments		
School Azle High School	Advisor Monica Amyett	

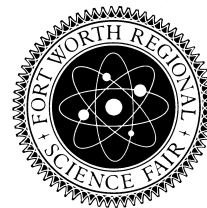


Fort Worth Regional Science Fair

Winners Directory

Award: **Behavior and Social Sciences**

First Place: Kenya Guardado	Division: I	50191
Project: I saw what you did, or did I?		
School Summit International	Advisor Brendon Pope	
First Place: Grace Obanigba	Division: I	50191
Project: I saw what you did, or did I?		
School Summit International	Advisor Brendon Pope	
First Place: Jennifer Vu	Division: I	50191
Project: I saw what you did, or did I?		
School Summit International	Advisor Brendon Pope	
Second Place: Sean R. Griffith	Division: I	10311
Project: No One's Watching: A Study Of Attribution Bias		
School Westlake Academy	Advisor Neil Arvantis	
Third Place: Charity E. Brown	Division: I	30136
Project: Can You Read My Lips		
School Harmony School Of Nature & Athletics	Advisor Candace Larue	



Fort Worth Regional Science Fair

Winners Directory

Award: **Biochemistry**

First Place: Jennifer J. Zhang	Division: I	20024
Project: The Effects Of Familial Hypertrophic Cardiomyopathy Mutations On The Potential Binding Sites Between Myosin And Myosin Binding Protein-c: A Computational Method		
School Texas Academy of Mathematics and Sciences	Advisor Douglas Root	

Second Place: Erin Yang	Division: I	50204
Project: The role of primary cilia in adult hippocampal gliogenesis		

School Texas Academy of Mathematics and Sciences	Advisor Jannon Fuchs
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Second Place: Valerie V. Huynh	Division: I	50204
Project: The role of primary cilia in adult hippocampal gliogenesis		

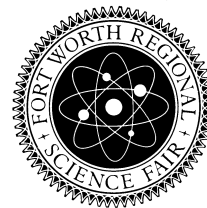
School Texas Academy of Mathematics and Sciences	Advisor Jannon Fuchs
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Third Place: Alysha S. Joseph	Division: I	50203
Project: Interactions of cationic polyamines with FHC sites in an unstable coiled-coil region of myosin		

School Texas Academy of Mathematics and Sciences	Advisor Root
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Third Place: Diana Wang	Division: I	50203
Project: Interactions of cationic polyamines with FHC sites in an unstable coiled-coil region of myosin		

School Texas Academy of Mathematics and Sciences	Advisor Root
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Fort Worth Regional Science Fair

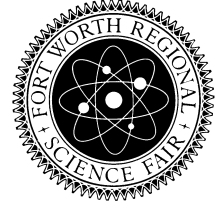
Winners Directory

Award: **Chemistry**

First Place: Stacy M. Ho	Division: I	20014
Project: Synthesizing Light Harvesting Complexes For Hydrogen Fuel Production		
School: Texas Academy of Mathematics and Sciences	Advisor: Dr Fleming	

Second Place: Benjamin Menard	Division: I	40190
Project: Adulteration Of Olive Oil		
School: Liberty Christian School	Advisor: Heather Lytle	

Third Place: Sivabalan Manivasagam	Division: I	20021
Project: Multi-reference Calculations For Triatomic System Co + O(sp) Using A Composite Approach		
School: Texas Academy of Mathematics and Sciences	Advisor: Dr Fleming	

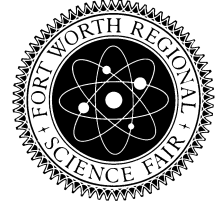


Fort Worth Regional Science Fair

Winners Directory

Award: **Computer Science**

First Place: Noah D. Simpson	Division: I	10027
Project: Improving The Lives Of Paralysis Victims With Webcam Eye Tracking		
School Harmony School Of Innovation	Advisor Nicole Turner	
Second Place: Raahil Sha	Division: I	50094
Project: MaSC: Detecting aberrantly methylated genes in cancer with consideration of heterogeneity		
School Texas Academy of Mathematics and Sciences	Advisor Peterson Richard	
Second Place: Kevin Chen	Division: I	50094
Project: MaSC: Detecting aberrantly methylated genes in cancer with consideration of heterogeneity		
School Texas Academy of Mathematics and Sciences	Advisor Peterson Richard	
Third Place: Logan M. Zartman	Division: I	10030
Project: Computer Vision- Implementing And Evaluating Object Detection Algorithms		
School Harmony School Of Innovation	Advisor Nicole Turner	



Fort Worth Regional Science Fair

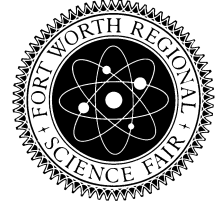
Winners Directory

Award: **Earth and Planetary Science**

First Place: Paola V. Gonzalez	Division: I	30060
Project: Eletrical Soils		
School Everman High School	Advisor L.R. Ritchie	

Second Place: Alyssa J. Wilder	Division: I	30083
Project: Shining A Light On Pastels		
School Everman High School	Advisor L.R. Ritchie	

Third Place: Susana M. Aguayo	Division: I	30048
Project: Colorful Darkness		
School Everman High School	Advisor L.R. Ritchie	

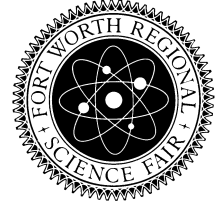


Fort Worth Regional Science Fair

Winners Directory

Award: **Energy and Transportation**

First Place: Yuyeon Lee Project: Increasing The Operational Lifespan Of Dye-sensitized Solar Cells School Harmony Science Academy	Division: I	50210
Second Place: Emran Shafaq Project: Algae: the future of biofuels School Harmony School Of Innovation	Division: I	50095
Second Place: Humza Mohammed Project: Algae: the future of biofuels School Harmony School Of Innovation	Division: I	50095
Third Place: Gerardo Hernandez Project: Diesel Exhaust Braking Efficiency School Everman High School	Division: I	30065



Fort Worth Regional Science Fair

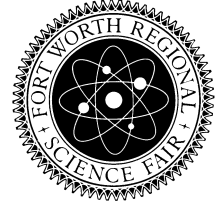
Winners Directory

Award: **Eng: Materials and Bioengineering**

First Place: Sheila S. Chandrahas	Division: I	50207
Project: Creating A Radiating Structure For Breast Cancer Self Detection		
School: Texas Academy of Mathematics and Sciences	Advisor: Dr Sinclain	

Second Place: Justin X. Zhong	Division: I	20225
Project: Learning From Nature: Biomimetic Design Of Artificial Gecko Feet Through Observation Of Nnatural Gecko Setae		
School: Texas Academy of Mathematics and Sciences	Advisor: Dr Fleming	

Third Place: Ewin N. Tang	Division: I	30098
Project: Imaging Probe For Detecting Bacteria		
School: Northstar School	Advisor: Jun Zhou	

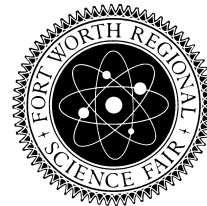


Fort Worth Regional Science Fair

Winners Directory

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

First Place: Milad Y. Najafabadi Project: It Is Rocket Science!	Division: I	10018
School Harmony School Of Innovation	Advisor Ms Nickolson	
Second Place: Sam Amyett Project: Cooling by submersion	Division: I	50102
School Azle High School	Advisor Monica Amyett	
Second Place: Chris Hunt Project: Cooling by submersion	Division: I	50102
School Azle High School	Advisor Monica Amyett	
Second Place: Richard T. O'Neal Project: Cooling by submersion	Division: I	50102
School Azle High School	Advisor Monica Amyett	
Third Place: Charles A. Wallace Project: A Simple Method To Step Up Dc Voltage	Division: I	20056
School Granbury High School	Advisor Dene Carter	



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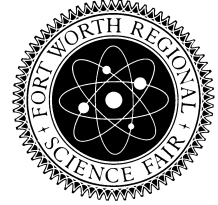
Winners Directory

Award: **Environmental Management & Science**

First Place: Kevin Lin	Division: I	20019
Project: Kenaf Fiber-polylactic Acid Foam Composites For Thermal Insulation		
School Texas Academy of Mathematics and Sciences	Advisor Dr Fleming	

Second Place: Jianing Jenny He	Division: I	20015
Project: The New Canary, Ii: Optimizing Direct Air Quality Analysis In Oil And Gas Fields		
School Texas Academy of Mathematics and Sciences	Advisor Dr Fleming	

Third Place: Sagar Segal	Division: I	50194
Project: Little Bubbles		
School Summit International	Advisor Brendon Pope	
Third Place: Jonathan Beltran	Division: I	50194
Project: Little Bubbles		
School Summit International	Advisor Brendon Pope	
Third Place: Yentl Dinsay	Division: I	50194
Project: Little Bubbles		
School Summit International	Advisor Brendon Pope	

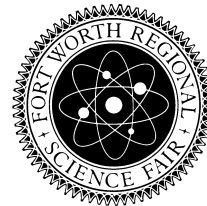


Fort Worth Regional Science Fair

Winners Directory

Award: **Mathematical Science**

First Place: Dylan R. Airey	Division: I	20212
Project: Distribution Normal Numbers On Bounded Bases		
School Texas Academy of Mathematics and Sciences	Advisor William Mance	
Second Place: George Qi	Division: I	50202
Project: A novel approach to estimating survival functions for interval censored data with STD behavioral diary informaiton		
School Texas Academy of Mathematics and Sciences	Advisor Qiang Zhao	
Second Place: Robert R. Tung	Division: I	50202
Project: A novel approach to estimating survival functions for interval censored data with STD behavioral diary informaiton		
School Texas Academy of Mathematics and Sciences	Advisor Qiang Zhao	
Third Place: Anita Rao	Division: I	20017
Project: Mathematical Model Of Sleep Regulation		
School Texas Academy of Mathematics and Sciences	Advisor Root	



Fort Worth Regional Science Fair

Winners Directory

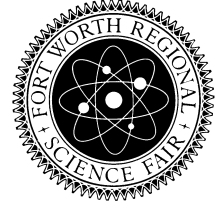
Award: **Medicine and Health**

First Place: Ari S. Gao	Division: I	20034
Project: Restraining Seizures II: Somatostatin Type 3 Receptors Mediate Protective Effects Against Seizures		
School Texas Academy of Mathematics and Sciences	Advisor Jannon Fuchs	

Second Place: David Z. Hao	Division: I	50205
Project: The characterization of reactive astrocytes after brain lesion		
School Texas Academy of Mathematics and Sciences	Advisor Jannon Fuchs	

Second Place: William Huang	Division: I	50205
Project: The characterization of reactive astrocytes after brain lesion		
School Texas Academy of Mathematics and Sciences	Advisor Jannon Fuchs	

Third Place: Sarika A. Sabnis	Division: I	10601
Project: Targeted-drug Delivery Using Magnetic Nanoparticles		
School R.L. Paschal High School	Advisor Wendy Yanney	



Fort Worth Regional Science Fair

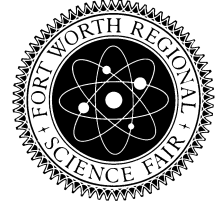
Winners Directory

Award: **Microbiology**

First Place: Jennifer A. Metu	Division: I	20146
Project: Mutant Of E. Coli Vs Wild Type E. Coli In Transformation Efficiency		
School Harmony Science Academy	Advisor Valerie Miller	

Second Place: Rebecca Tran	Division: I	30081
Project: Mud To Electricity		
School Everman High School	Advisor L.R. Ritchie	

Third Place: Denisse J. Flores	Division: I	30064
Project: Death Rays		
School Everman High School	Advisor L.R. Ritchie	

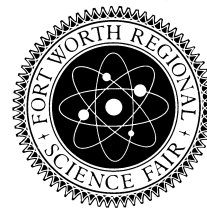


Fort Worth Regional Science Fair

Winners Directory

Award: **Physics and Astronomy**

First Place: Dominic Yurk Project: Problem Solving With Chaos School R.L. Paschal High School	Division: I	10600
Advisor Wendy Yanney		
Second Place: Andrew J. Norsworthy Project: Light Scattering School The Home Educators Outsourcing Solution	Division: I	20147
Advisor Donna Szumila		
Third Place: Kasi K. Krieger Project: How are coronal mass ejections tracked by the solar and heliospheric observatory (soho) satellite School Granbury High School	Division: I	50090
Advisor Carter Dene		
Third Place: Matthew O. Bhatt Project: How are coronal mass ejections tracked by the solar and heliospheric observatory (soho) satellite School Granbury High School	Division: I	50090
Advisor Carter Dene		



Fort Worth Regional Science Fair

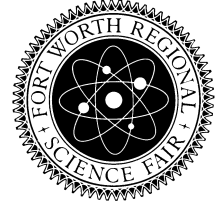
Winners Directory

Award: **Plant Sciences**

First Place: Christopher A. Pitts	Division: I	10022
Project: Evaluating The Cellular Effect Of D-phenothrin; Piperonyl Butoxide On Medicago Satina		
School Harmony School Of Innovation	Advisor Nicole Turner	

Second Place: Victor C. Yau	Division: I	20023
Project: Lipid Accumulation In Cgi-58 Mutated Arabidopsis		
School Texas Academy of Mathematics and Sciences	Advisor Brain Ayre	

Third Place: Emily M. Moren	Division: I	10314
Project: Grow Light Vs. Sunlight Vs. Flourescent Light		
School Westlake Academy	Advisor Neil Arvantis	



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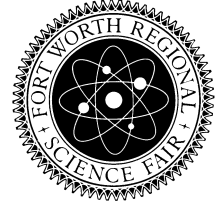
Winners Directory

Award: **Animal Science**

First Place: Henry F. Harshfield	Division: II	40170
Project: Stressed To Death		
School Liberty Christian School	Advisor Lisa Deaver	

Second Place: Isaiah A. Adams	Division: II	20108
Project: The Effects Of Natural Gas On An Aquatic Organism		
School Applied Learning Academy	Advisor Denise Gordon	

Third Place: Alexander J. Slack	Division: II	40148
Project: Light Loving Bugs		
School Liberty Christian School	Advisor Searcy Colleen	



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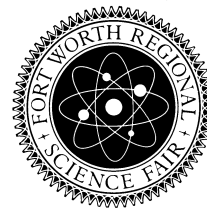
Winners Directory

Award: **Behavior and Social Sciences**

First Place: Gabriel N.J. Lewis	Division: II	30151
Project: Memory Bulb		
School Harmony School Of Nature & Athletics	Advisor Candace Larue	

Second Place: Caitlin RO. Libed	Division: II	30152
Project: The Effect Of Visual And Auditory Stimulus On The Memory Of Selected 5th Graders		
School Harmony School Of Nature & Athletics	Advisor Candace Larue	

Third Place: Alexandria N. Inbody	Division: II	20048
Project: Musical Memory		
School Acton Middle School	Advisor Coach Carpenter	



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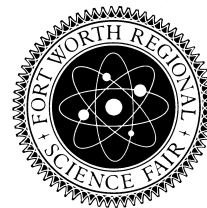
Winners Directory

Award: **Biochemistry**

First Place: Matthew J. Reneau	Division: II	40154
Project: Can You Take Me Higher? A Diabetic's Guide To Nutrition		
School Liberty Christian School	Advisor Lisa Deaver	

Second Place: Liesl B. Krone	Division: II	20046
Project: What Pesticides Have You Eaten Today?		
School Acton Middle School	Advisor Coach Carpenter	

Third Place: Jack H. Jones	Division: II	40165
Project: The Metal Melt		
School Liberty Christian School	Advisor Mrs Jordan	



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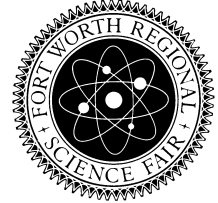
Winners Directory

Award: **Chemistry**

First Place: Anshu Jain	Division: II	10010
Project: Water To Fuel To Water: The Fuel Cycle Of The Future		
School Harmony School Of Innovation	Advisor Jun Guo	

Second Place: Phillip Boltan	Division: II	10101
Project: Influence Of Music, Silence, And Radio Speaking On Growth Of Crystals		
School Harmony School Of Innovation	Advisor Dr Jun	

Third Place: Alondra Vasquez	Division: II	50119
Project: The chemistry of Texas selected waters		
School Applied Learning Academy	Advisor Denise Gordon	
Third Place: Ximena Arista	Division: II	50119
Project: The chemistry of Texas selected waters		
School Applied Learning Academy	Advisor Denise Gordon	
Third Place: Evan L. Irvin	Division: II	50119
Project: The chemistry of Texas selected waters		
School Applied Learning Academy	Advisor Denise Gordon	



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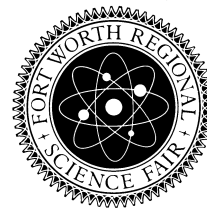
Winners Directory

Award: **Computer Science**

First Place: Ryan W. Geddie	Division: II	20125
Project: Is A Picture Worth A Thousand Conversions?		
School North Joshua Elementary	Advisor Ms Blair	

Second Place: Seth J. Rowland	Division: II	40153
Project: Wifi Vs Wall		
School Liberty Christian School	Advisor Searcy Colleen	

Third Place: Catherine O. Murphy	Division: II	30046
Project: Start!! Your!! Engines!!		
School A.g. Elder Elementary	Advisor Holly Harris	



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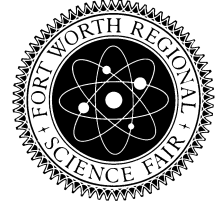
Winners Directory

Award: Earth and Planetary Science

First Place: Gracie RA. Meek	Division: II	40160
Project: Fancy Fluorescence		
School Liberty Christian School	Advisor Lisa Deaver	

Second Place: Kyler B. Howard	Division: II	20127
Project: Stalactites & Stalagmites		
School North Joshua Elementary	Advisor Ms Blair	

Third Place: Kaitlyn A. Scanlon	Division: II	20099
Project: What Not To Flush		
School Harmony Science Academy	Advisor Julie Coan	



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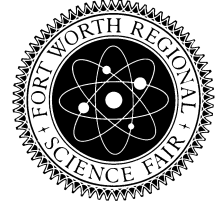
Winners Directory

Award: **Energy and Transportation**

First Place: Afeefah F. Khazi-Syed	Division: II	10014
Project: Hydrogen Fuel Cells: Forecast Is Sunny		
School Harmony School Of Innovation	Advisor Ms Nickolson	

Second Place: Alec M. Mcallister	Division: II	30153
Project: Car Of The Near Future		
School Harmony School Of Nature & Athletics	Advisor Candace Larue	

Third Place: Jacob J. James	Division: II	50077
Project: Catching Rays: Solar Panel Science		
School St. Elizabeth Ann Seton Catholic School	Advisor Mrs Arnold	
Third Place: Grayson F. Hutka	Division: II	50077
Project: Catching Rays: Solar Panel Science		
School St. Elizabeth Ann Seton Catholic School	Advisor Mrs Arnold	



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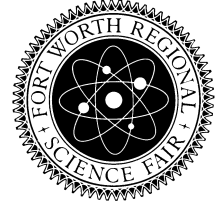
Winners Directory

Award: **Eng: Materials and Bioengineering**

First Place: Luke G. Millican	Division: II	40159
Project: Chest Protector Proficiency		
School Liberty Christian School	Advisor Lisa Deaver	

Second Place: Mathios Mekbebe-Gillett	Division: II	10107
Project: More coils, More Voltage?		
School Harmony School Of Innovation	Advisor Nicole Robinson	

Third Place: Andrew G. Schroeder	Division: II	20209
Project: Give Me A Hand		
School Stripling Middle School	Advisor Mrs Riddle	



Fort Worth Regional Science Fair

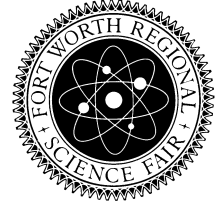
Winners Directory

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

First Place: Dolores A. Owens	Division: II	10021
Project: May The Blades Be Ever In Your Favor!		
School Harmony School Of Innovation	Advisor Ms Nickolson	

Second Place: Mamoon Khalid	Division: II	20102
Project: Faster Internet For Broadband Revolution		
School Harmony Science Academy	Advisor Abdul Kadir	

Third Place: Scott J. Landers	Division: II	20087
Project: Which Pyramid Supports The Most Weight?		
School Harmony Science Academy	Advisor Valerie Miller	



Fort Worth Regional Science Fair

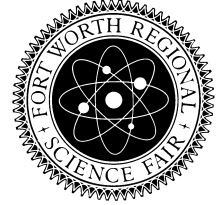
Winners Directory

Award: Environmental Management

First Place: Diana N. Dyer	Division: II	30003
Project: Aliens Invade-what Will Stop The Mussel Mayhem?		
School Northstar School	Advisor Tabatha Knickerbocker	

Second Place: Benjamin J. Lillagore	Division: II	20045
Project: How Long Does It Take? The Relationship Between Temperature Change And Charge Time		
School Acton Middle School	Advisor Coach Carpenter	

Third Place: Elisa McRae	Division: II	10015
Project: Don't Clog Up!		
School Harmony School Of Innovation	Advisor Emrah Akay	



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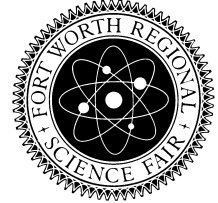
Winners Directory

Award: **Environmental Science**

First Place: Sakshat Sinha	Division: II	10103
Project: Biofuels And Fossil Fuels- Two Tangled Terms!!		
School Harmony School Of Innovation	Advisor Andrea Wheat	

Second Place: Vasu Mahapatra	Division: II	10450
Project: Don't Judge Your Lawn By Its Looks Alone- Chemical Lawn Treatment And Loss Of Microbial Diversity In The Soil		
School Dawson Middle School	Advisor Rise Little	

Third Place: Raisa Islam	Division: II	50215
Project: Pure Cure		
School Harmony Science Academy	Advisor Nuray Tunca	
Third Place: Noora Abu-Anbar	Division: II	50215
Project: Pure Cure		
School Harmony Science Academy	Advisor Nuray Tunca	



Fort Worth Regional Science Fair

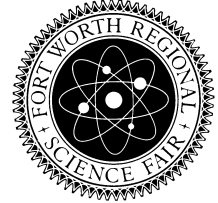
Winners Directory

Award: **Mathematical Science**

First Place: Hailey L. Costin	Division: II	40180
Project: Straight As An Arrow		
School Liberty Christian School	Advisor Lisa Deaver	

Second Place: Scarlet M. Oakley	Division: II	10307
Project: Pedal To The Medal		
School Westlake Academy	Advisor Lenka Andova	

Third Place: Adriana E. Asbill	Division: II	40188
Project: Estimation: More Important Than You Think		
School Liberty Christian School	Advisor Lisa Deaver	

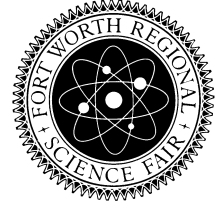


Fort Worth Regional Science Fair

Winners Directory

Award: **Medicine and Health**

First Place: Ryan P. Parkey Project: The Kilimanjaro Experiment School Westlake Academy	Division: II Advisor Anclova Lenka	30155
Second Place: Laurel E. Champagne Project: Tooth erosion School Westlake Academy	Division: II Advisor Anclova Lenka	50124
Second Place: Joshua P. MacKaron Project: Tooth erosion School Westlake Academy	Division: II Advisor Andova Lenka	50124
Third Place: Landon D. Clark Project: Dissolve Me School North Joshua Elementary	Division: II Advisor Ms Blair	20115



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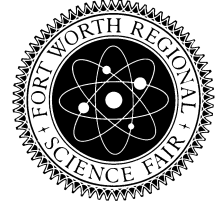
Winners Directory

Award: Microbiology

First Place: Erika A. Miranda	Division: II	20118
Project: Germs, Germs, Germs...they're Everywhere!		
School North Joshua Elementary	Advisor Ms Blair	

Second Place: Natalie M. Grigg	Division: II	40175
Project: Solution Or Pollution?		
School Liberty Christian School	Advisor Lisa Deaver	

Third Place: Brittney N. Pinckard	Division: II	20055
Project: Is Bottled Water Really Safe?		
School Acton Middle School	Advisor Coach Carpenter	

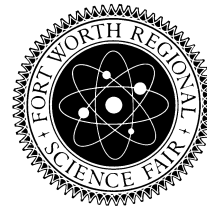


Fort Worth Regional Science Fair

Winners Directory

Award: **Physics and Astronomy**

First Place: Michael D. Becker Project: Different Temperatures, Different Pitch School Liberty Christian School	Division: II Advisor Lisa Deaver	40186
Second Place: John L. Miller Project: Pay A "tension" To Concrete School Westlake Academy	Division: II Advisor Anclova Lenka	30156
Third Place: Madison M. Lain Project: Goes Splat! School North Joshua Elementary	Division: II Advisor Ms Blair	20128



Fort Worth Regional Science Fair

Winners Directory

Award: **Plant Sciences**

First Place: Diego Perez	Division: II	50193
Project: Growing with Greywater		

School **Summit International**

Advisor **Brendon Pope**

First Place: Lisa Bassett

Division: **II** **50193**

Project: **Growing with Greywater**

School **Summit International**

Advisor **Brendon Pope**

Second Place: Trisha Gryder

Division: **II** **50115**

Project: **Hot water, cold water, caffeine, oh my**

School **Acton Middle School**

Advisor **Caprenter Scott**

Second Place: Rayni M. Skaggs

Division: **II** **50115**

Project: **Hot water, cold water, caffeine, oh my**

School **Acton Middle School**

Advisor **Caprenter Scott**

Third Place: Alondra Loera

Division: **II** **50121**

Project: **The effects and chemical analysis of worm composting of Fast Plants growth**

School **Applied Learning Academy**

Advisor **Denise Gordon**

Third Place: Brooke Coskrey

Division: **II** **50121**

Project: **The effects and chemical analysis of worm composting of Fast Plants growth**

School **Applied Learning Academy**

Advisor **Denise Gordon**