

## Animal Sciences (AS)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-AS-02	Weslaco East	What was that?	Elliot Chavez	Daniel Plas
<b>4th</b>	S-AS-01	Brownsville: Lopez	Dissolved Oxygen Consumption of Glass Shrimp	Alison Cerda	Elisa Velador
<b>3rd</b>	S-AS-08	Brownsville: Pace	Ants of the future	Lonnie Maldonado	Dora Lopez
<b>2nd</b>	S-AS-05	Brownsville: Pace	Grow Sea Urchin, Grow!	Jo Marie Gutierrez	Dora Lopez
<b>1st</b>	S-AS-10	Weslaco East	Endopathogenic Nematodes in the Anthonomus Grandis	Ramiro Trevino	Mary Gregory

## Behavioral and Social Sciences (BE)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-BE-01	Brownsville: Hanna	Multitasking	Alexandrina Quintanilla	Nereyda Arizmendi
<b>4th</b>	S-BE-05	Brownsville: Lopez	Dream Fright	Denisse Hernandez	Susan Galvan
<b>3rd</b>	S-BE-03	Brownsville: Hanna	The Evil Cell Phones	David Barrera	Nelda Rogers
<b>2nd</b>	S-BE-14	Brownsville: Pace	Take it to the extreme	Stephanie Garza	Dora Lopez
<b>1st</b>	S-BE-04	Brownsville: Hanna	Mind Control	Deidre Higareda	Nelda Rogers

## Biochemistry (BI)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-BI-06	Brownsville: Lopez	Carbon Dioxide Production of Glass Shrimp	Janet Guzman	Elisa Velador
<b>4th</b>	S-BI-07	Brownsville: Rivera	What do you See? Vitamin C!	Jaqueline Snyder	Rejane Fuentes-Tauber
<b>3rd</b>	S-BI-04	Weslaco East	Bioremediation 2	Anahi Gonzalez	Daniel Plas
<b>2nd</b>	S-BI-05	Brownsville: Hanna	Boost Up	Eduardo Hernandez	Graciela Reyes
<b>1st</b>	S-BI-11	Weslaco High School	Carbonic Anhydrase in Spinach Leaves	Paulina De Los Santos	Esmeralda Bloomquist

## Cellular and Molecular Biology (CB)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-CB-02	Brownsville: Rivera	Fruity Flavor DNA	Luis Saucedo	Fuentes-Tauber
<b>4th</b>	S-CB-08	Los Fresnos High	Substantiating Symbiotic Relationships between Bacteria and RGV-innate Plants Corroborated through Isolated DNA Sequences	Isabel Degollado	Humberto Mendoza
<b>3rd</b>	S-CB-07	Weslaco East	The Smallest Common Origin	Alejandro Madrigal	Daniel Plas
<b>2nd</b>	S-CB-01	Brownsville: Lopez	Antioxidants and the Germination of Radish Seeds	Jessica Proa	Kathleen Posio
<b>1st</b>	S-CB-04	Weslaco East	Formation of Synapses	Rolando Arjona	Daniel Plas

## Chemistry (CH)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-CH-09	Brownsville: Hanna	The Oxidation of Apples: Different Types of Antioxidants on Skinless Apples	Patricia Alvarado	Graciela Reyes
<b>4th</b>	S-CH-01	Brownsville: Hanna	Vitamin C in Orange Juice	Cecilia Galvan	Nelda Rogers
<b>3rd</b>	S-CH-02	Weslaco High School	Is the Shelf Life of Bleach Affected by Light?	Emiliano Ybarra	Jose Zambrano
<b>2nd</b>	S-CH-04	Weslaco High School	Design and Construction of a low cost efficient ultraviolet spectrophotometer	Servando Martinez	Daniel Plas
<b>1st</b>	S-CH-03	Brownsville: Pace	Take It Off!	Heidi Kong	Dora Lopez

## Computer Science (CS)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>					
<b>4th</b>	S-CS-05	Weslaco East	Encyclopedia of the Periodic Table of Elements	Lucas Cross	Roger Nelson
<b>3rd</b>	S-CS-02	Weslaco High School	Automating the Classification of Radiation	Jesus Chavez	Daniel Plas
<b>2nd</b>	S-CS-04	Weslaco East	The Lymnaea Feeding System Part II	Rolando Gonzalez	Daniel Plas
<b>1st</b>	S-CS-03	Brownsville: Pace	Don't Think I'm Tall Enough? "Tri" Me	Peter Yi	Dora Lopez

## Earth and Planetary Science (EA)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-EA-03	Brownsville: Pace	Geo-Solar Connections: A Study of Space Weather and Its Effects On Geological Disturbances	Damian Tatum	Dora Lopez
<b>4th</b>	S-EA-08	Brownsville: Pace	Terraforming Mars	Stefany Salinas	Dora Lopez
<b>3rd</b>	S-EA-09	Weslaco High School	Calculating Lightning through the Hall Effect	Zachary Rodriguez	Daniel Plas
<b>2nd</b>	S-EA-05	Brownsville: Pace	Cyclonic Phenomena: A first year study on hurricane attributes that will correlate a pattern making it easier to project paths for future storms	James Crixell	Dora Lopez
<b>1st</b>	S-EA-04	Brownsville: Hanna	Beach Be Gone	Heather Glover	Michael Baldwin

## Engineering: Electrical and Mechanical (EE)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-EE-01	Brownsville: Rivera	Keeping the Flame	Adriana Contreras	Fuentes-Tauber
<b>4th</b>	S-EE-08	Weslaco East	The Ultimate Roach Zapper	Ivan Iglesias	Thomas Padilla
<b>3rd</b>	S-EE-05	Weslaco East	V.U. Meter	Billy Flores	Daniel Plas
<b>2nd</b>	S-EE-06	Weslaco East	Laser Communications	David Ortegon	Daniel Plas
<b>1st</b>	S-EE-07	Brownsville: Pace	Compress Me Light	Emely Morales	Dora Lopez

## Environmental Management (EM)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-EM-09	Weslaco High School	Arsenic-Tolerant Communities in the Rio Grande Valley	Monica Garcia	Kristine Lowe
<b>4th</b>	S-EM-06	Donna HS	What's Bugging the Citrus?	Heather Hernandez	Laura Decanini
<b>3rd</b>	S-EM-04	Brownsville: Lopez	Effect of Aquatic Plant Type on Oxygen Production	Gabriela Moreno	Elisa Velador
<b>2nd</b>	S-EM-08	Weslaco High School	Water Fleas	Carley Amador	Tim Sears
<b>1st</b>	S-EM-07	Brownsville: Hanna	Down and Out	Michael Espinoza	Nelda Rogers

## Engineering: Materials and Bioengineering (EN)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-EN-09	Brownsville: Rivera	Foamy Extinction	Tyler Bernal	Yajaira Fuentes-Tauber
<b>4th</b>	S-EN-03	Weslaco East	Soil strength	Gabriel Martinez	Roger Nelson
<b>3rd</b>	S-EN-11	McAllen: Achieve Early Col. H.S.	Magnetic Transportation	Alberto Lopez	Anthony Phillips
<b>2nd</b>	S-EN-02	Weslaco East	Preservation of historical monuments	Dpbetlehem Reyna	Roger Nelson
<b>1st</b>	S-EN-07	Brownsville: Pace	Weatherproof Winglets	Peter Guerrero	Dora Lopez

## Energy and Transportation (ET)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-ET-09	Brownsville: Hanna	Health Cents	Raoul Garcia	Nereyda Arizmendi
<b>4th</b>	S-ET-05	Weslaco East	Solar Powered Cooling System	George Guajardo	Ruby Lozano
<b>3rd</b>	S-ET-08	Brownsville: Lopez	Solar Cells	Marco Resendez	Susan Galvan
<b>2nd</b>	S-ET-07	Weslaco High School	Ben Franklin's Antithesis II	Juan Cardenas	Laurinda Cardenas
<b>1st</b>	S-ET-02	Brownsville: Pace	Green Gas	Alexander Garcia	Dora Lopez

## Environmental Sciences (EV)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-EV-07	Brownsville: Pace	Why So Dry?	Kimberly Carmona	Dora Lopez
<b>4th</b>	S-EV-15	Brownsville: Pace	Good Grief What's Wrong with my Coral Reef?	Leticia Cardenas	Dora Lopez
<b>3rd</b>	S-EV-10	Brownsville: Hanna	Light and Mushrooms: Effect of Light on The Growth and Development of Mushrooms	Rolando Hernandez	Michael Baldwin
<b>2nd</b>	S-EV-02	Brownsville: Porter	Pollution and Percolation	Diego Ruiz	Mark Russo
<b>1st</b>	S-EV-08	Weslaco East	Ionizing Radon Radtion from Dinnerware	Krystal Luna	Daniel Plas

# Mathematical Sciences (MA)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>					
<b>4th</b>	S-MA-04	Weslaco East	Crystals	Crystal Ybarra	Roger Nelson
<b>3rd</b>	S-MA-08	Weslaco High School	Can You Hear Me Now	Victor Voyce	Jose Zambrano
<b>2nd</b>	S-MA-06	Brownsville: Hanna	Tightwads vs Spendthrifts	Patricia Gonzalez	Nereyda Arizmendi
<b>1st</b>	S-MA-03	Brownsville: Pace	No Place on Earth, Terraform the Fourth	Carmela Morada	Dora Lopez

# Medicine and Health Sciences (ME)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-ME-01	Brownsville: Pace	Why Does My Knee Hurt?	Allan Hurtado	Robert Lanaghan
<b>4th</b>	S-ME-11	Brownsville: Hanna	Thirst Quencher?	Michelle Flores	Nereyda Arizmendi
<b>3rd</b>	S-ME-07	Brownsville: Hanna	The Stomach Effect: Stomach Acidity vs. The Digestive Process	Jody Serrano	Nereyda Arizmendi
<b>2nd</b>	S-ME-04	Brownsville: Pace	Don't Mimic The Pandemic	Cindy Castillo	Dora Lopez
<b>1st</b>	S-ME-10	Weslaco East	Neuro Regeneration: Embryonic factors promote adult axon regrowth in a Gastropod model	Maria Rangel	Daniel Plas

# Microbiology (MI)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-MI-01	Weslaco East	Generic vs Brand	Carlos A. Garcia	Debrah Villalon
<b>4th</b>	S-MI-06	Brownsville: Lopez	Artificially Sweet	Pena Gisela	Elisa Velador
<b>3rd</b>	S-MI-07	Weslaco High School	The effects of antibiotics on bacterial count	Samantha De Hoyos	Erika Aguirre
<b>2nd</b>	S-MI-05	Brownsville: Hanna	Qualitative Determination on the Effectiveness of Selective Disinfectants and Antiseptics on Representative Bacterium	Lauren Rogers	Patrick Lewis
<b>1st</b>	S-MI-02	Santa Gertrudis: Academy High School	How Clean is Your Locker Room?	Elizabeth Springs	Jean M. Escudero

# Physics and Astronomy (PH)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-PH-06	McAllen: Achieve Early Col. H.S.	Cycling Aerodynamics	Jose Angel Puente	Eduardo Bravo
<b>4th</b>	S-PH-09	Brownsville: Hanna	Is the Sky Falling?	Michelle Kidd	Michael Baldwin
<b>3rd</b>	S-PH-11	Weslaco High School	The Biophysics of Locomotion: Avoiding Unnecessary Work	Zachary Buentello	Kasey Juarez
<b>2nd</b>	S-PH-07	Brownsville: Pace	All Corked Up	Lizzette Saldana	Robert Lanaghan
<b>1st</b>	S-PH-01	Brownsville: Hanna	Laser Precise	Alberto Mata	Nelda Rogers

# Plant Sciences (PS)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-PS-04	Weslaco East	Pinto Bean Germination	Felicia Juarez	Ruby Lozano
<b>4th</b>	S-PS-11	Los Fresnos High	Pharmaco-Dependent and Independent Induced Increased Vascularity Effects on Growth and Mitotic Indices	Rogelio Gutierrez	Humberto Mendoza
<b>3rd</b>	S-PS-01	Harmony Science Academy: Brownsville	Stunned Plant Growth	Amairani Benavides	Ilker Yilmaz
<b>2nd</b>	S-PS-02	Brownsville: Hanna	The Battle of the Mulch at Dry Gulch	Andrew Moser	Nelda Rogers
<b>1st</b>	S-PS-10	Brownsville: Lopez	Pesticide: Friend or Foe	Yelitza Garcia	Susan Galvan

## Team Biological (TB)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-TB-05	Brownsville: Hanna	Bird's Choice	Debra Rios & Sarah Hirsch	Michael Baldwin
<b>4th</b>	S-TB-02	Weslaco High School	Curcum Longa	Betty Garcia & Andrea Pompa	Debrah Villalon
<b>3rd</b>	S-TB-06	Weslaco East	Maximizing the Use of Orange Rinds	Javier Dominguez & Laura Hernandez	Connie Sinoy
<b>2nd</b>	S-TB-13	Los Fresnos High	A Two Phase Investigation for the Optimization of Cestoda Therapy through DNA Isolation, Protein Concentration Analysis, and Bacterial	Johnathon Carrejo & Adrian Mascorro	Humberto Mendoza
<b>1st</b>	S-TB-11	Brownsville: Pace	CSI:Coastal Scene Investigations	Tracy Aguilar & Tanya Aguilar	Dora Lopez

## Team Physical (TP)

Rank	Project #	School	Project Title	Student's Name	Teacher
<b>5th</b>	S-TP-08	Brownsville: Pace	Bend It!	Stephanie Peña & Analisa Lopez	Dora Lopez
<b>4th</b>	S-TP-04	Weslaco East	Winds of Return	Michael Perez & Isai Hernandez & Jose Duran	Roger Nelson
<b>3rd</b>	S-TP-05	Brownsville: Porter	Building a Virtual Pulsar Catalog for Google Sky	Richard Benavides & Luis Garcia	Andy Miller
<b>2nd</b>	S-TP-06	Weslaco East	Magnetic Field Effects on Isomerization of Cis- and Trans-	Roberto Guajardo & Frank Puente & Luis Cavazos	Daniel Plas
<b>1st</b>	S-TP-03	Weslaco East	Upconversion Luminescence in Living Tissue	Matthew Raigosa & David Ortiz	Roger Nelson

Rio Grande Valley Regional Science and Engineering Fair 2010  
High School Winners

## Grand Champion Team

Rank	Project #	School	Project Title	Student's Name	Teacher
Grand Champion Teams	S-TP-03	Weslaco East	Upconversion Luminescence in Living Tissue	Matthew Raigosa & David Ortiz	Roger Nelson

## First Runner Up Individual

Rank	Project #	School	Project Title	Student's Name	Teacher
1st Runner Up	S-ME-10	Weslaco East	Neuro Regeneration: Embryonic factors promote adult axon regrowth in a Gastropod model	Maria Rangel	Daniel Plas

## Grand Champion Individual

Rank	Project #	School	Project Title	Student's Name	Teacher
Grand Champion	S-EE-07	Brownsville: Pace	Compress Me Light	Emely Morales	Dora Lopez