

Proj ID	Award	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
	<i>GA: Grand Award</i>						
	<i>GARU1: Grand Award Runner-Up #1</i>						
	<i>GARU2: Grand Award Runner-Up #2</i>						
						<i>CSEF: CA Science &amp; Engineering Fair Nominee</i>	
						<i>TFSJIC: Thermo Fisher Scientific Junior Innovators Challenge Nominee</i>	

## SENIOR DIVISION

### Senior Division - Animal Science (ANIM)

101	<b>1st</b> <b>CSEF</b>	Mandyam	Tanya	9	Circadian Rhythm Disturbance Affects Running Activity and Gut Microbiome in Rats	Westview High School High	M. Christopher
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### Senior Division - Behavioral and Social Sciences (BEHA)

111	<b>3rd</b>	Ramirez	Cameron	10	Effectiveness of Students' Time Management on GPA	Central Union High School	L. Rueda
112	<b>1st</b>	Foss	Spencer	10	The Sunk Cost Fallacy and the Applications of Priming	S. D Jewish Academy	P. Hagarman
113	<b>NS</b>	Kuemmerle	Nolan	12	To What Extent is There a Correlation Between Age and Reaction Time?	Bonita Vista High School	M. Mardahl
115	<b>2nd</b>	Garg	Aarushi	10	Silent Epidemic in the U.S.: Sleeplessness Amongst Teens	Canyon Crest Academy	E. Gerstin
116	<b>1st</b> <b>CSEF</b>	Khan	Safwa	11	Learned Helplessness on Academic Performance across Different Age Groups	Bright Horizon Academy	N. Nasereldin
117	<b>3rd</b>	Na	Grace	11	The Effects of Religion on BVH Students' Environmental Philosophies	Bonita Vista High School	J. Ekstein
118	<b>3rd</b>	Sunga	Eiffel	12	The Effect of Income on BVH Students' Ability to Live Sustainably	Bonita Vista High School	J. Ekstein
119	<b>3rd</b>	Wu	Jialu	10	Text-to-Image to Increase Reading Comprehension in Lower and Middle School Students	La Jolla Country Day School	D. Lenzen
120	<b>2nd</b>	McGreevy Park	Isaac Alex	11	Determining the Effects of Intense Focus on Auditory Memory	La Jolla High School	K. Dill
121	<b>3rd</b>	Bhalla	Nupur	9	Correlation Between Suicides and Mental Health, Substance Abuse, HDI, Marriages, Life Satisfaction	Del Norte High School	A. Callicott

### Senior Division - Biochemistry (BCHM)

141	<b>3rd</b>	Ibarra Almanza	Melany	10	Effects of Ultraviolet Rays on Gelatin	Central Union High School	L. Rueda
142	<b>1st</b> <b>CSEF</b>	Martin	Jaden	11	The Concentration Difference of Proteins During Different Stages of Lactation in Bovines	Central Union High School	L. Rueda
143	<b>3rd</b>	Nandhimandalam	Medha	11	Exploring the Effect of Turmeric Absorption with Black Pepper-Turmeric Combination	Westview High School	D. McMartin

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<b>Senior Division - Biochemistry (BCHM) cont'd</b>							
144	<b>1st CSEF</b>	Tsui	Andrew	11	Novel High-Throughput Screening and Identification of FDA-Approved Drugs for Alzheimer's Disease Treatment	Canyon Crest Academy	A. Siegel
145	<b>NS</b>	Caballero	Noah	12	Effect of Inhibitors on Functionality of Phenolase in Apples	Bonita Vista High School	M. Mardahl
<b>Senior Division - Biomedical/Health Sciences and Bioengineering (BMDE)</b>							
151	<b>2nd</b>	Barrett Cano	Aimee Sofia	12 12	Most Common Complications in Patients from Bariatric Surgery	Central Union High School	L. Rueda
152	<b>2nd</b>	Dai	Nathan	11	Diagnosis of Mpox Using Machine Learning with a Convolutional Neural Network	Canyon Crest Academy	E. Gerstin
153	<b>1st CSEF</b>	Botello Pradis	Natalie Leilani	12 12	Automating Nutrition Administration as an Approach to Preventing Malnutrition and Dehydration in Dementia Patients	Central Union High School	A. Ortiz
154	<b>2nd</b>	Garcia Barbosa	Seleena	12	Does Aerobic Exercise Affect the Performance of Memorization?	Bonita Vista High School	M. Mardahl
155	<b>1st CSEF</b>	Kalyanaraman	Anirudh	10	Cobinamide - A Novel Antioxidant to Protect Against Polyaromatic Hydrocarbon-Induced Cardiac Cytotoxicity	Mt. Carmel High School	A. Klingborg
156	<b>2nd</b>	Quezada	Jayne	12	To What Extent Does Gender Affect the Patellar Reflex?	Bonita Vista High School	M. Mardahl
157	<b>1st CSEF</b>	Krishnan	Maya	11	Effect of Human Dermal Fibroblast Cells on Lipopolysaccharide (LPS)-Induced Neuroinflammation	La Jolla Country Day School	D. Valji
159	<b>3rd</b>	Alcantara	Mikha	12	How Does Classical Music Compare to Horror Music in Manipulating Heart Rate	Bonita Vista High School	M. Mardahl
160	<b>3rd</b>	Fries	Sam	11	Compression: Performance Enhancing or Not	St. Augustine High School	T. Fries
161	<b>2nd</b>	Hussain	Daanya	11	Sugars vs Sweeteners: Detrimental Effects on Bodily Functions	Bright Horizon Academy	N. Nasereldin
162	<b>1st CSEF</b>	Day	Andrew	11	Gasping for Air? Blame Neanderthals.	Torrey Pines High School	B. Belyea
163	<b>1st CSEF</b>	Chen	Justin	12	Using Artificial Intelligence to Track Cellular Changes After Laser-Induced-Shockwave as a Model of Traumatic Brain Injury	Torrey Pines High School	B. Belyea

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**Senior Division - Biomedical/Health Sciences and Bioengineering (BMDE) cont'd**

165	<b>2nd</b>	Garcia Barbosa	Cynthia	12	To What Extent Does Standing from a Supine Position Affect Heart Rate and Blood Pressure?	Bonita Vista High School	M. Mardahl
166	<b>1st CSEF</b>	Khattar	Zinia	10	Discovery of Stress Pathways Targets to Map Gene Function on Regulatory Networks	Del Norte High School	J. Cheskaty
167	<b>1st</b>	Ganji	Vibha Yadav	9	Deep Learning Based Approach for Detection of Epileptogenic Zone Using HFO Events	Del Norte High School	N. Ganji
168	<b>1st CSEF</b>	Fan	Leanne	9	Detecting and Treating Mid-Ear Infections Using Acoustic Reflectometry and Blue Light	Westview High School	S. Halander

**Senior Division - Cellular and Molecular Biology (CELL)**

181	<b>2nd</b>	Cao	Shannon	11	Proteomic Analysis of Epithelial Cell Polarity Complexes Using TurboID, g:Profiler, and Cytoscape	La Jolla High School	J. Zhang
182	<b>2nd</b>	Sun	Grace	12	Exploring the Contribution of Innate Immune Cells to Breast Cancer Immunotherapy	The Bishop's School	L. Keller
183	<b>3rd</b>	Patel	Shreeya	10	Analysis of p53 Target Genes in Senescent Cells	Del Norte High School	C. Craig

**Senior Division - Chemistry (CHEM)**

191	<b>1st CSEF</b>	Kulkarni	Rishika	11	Novel PSS-Driven Ligand Exchange on the Surface of Gold Nanocubes	Francis Parker School	J.P. Pierce
192	<b>1st CSEF</b>	Xiong	Nathan	11	Effective Separation of Fatty Acids Using COF Incorporated Epoxy Membranes	The Bishop's School	P. Reynolds

**Senior Division - Computational Biology and Bioinformatics (CBIO)**

202	<b>1st GARU1 CSEF</b>	Dogra	Saanvi	9	Investigating the Underlying Molecular Patterns in Aggressive Brain Tumor ETMR	Del Norte High School	S. Dhanda
203	<b>1st CSEF</b>	Gantla	Maanaskumar	12	Screening of FDA Approved Drugs for Potential Alzheimer's Therapeutics Using Machine Learning	Canyon Crest Academy	A. Siegel

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<b>Senior Division - Computational Biology and Bioinformatics (CBIO) cont'd</b>							
204	<b>3rd</b>	Lu	Daniel	11	Early Prediction of Diabetes Using Machine Learning Techniques on Multiple Datasets	Westview High School	S. Halander
205	<b>2nd</b>	Samy	David	11	Accelerating Cancer Drug Discovery through an Algorithmic Approach to Identifying Leads Against Target Protein Kinases	Canyon Crest Academy	K. Hare
206	<b>3rd</b>	Wang	Chloe	10	How Long Will It Take to Exhaust All Possible Mutations of SARS-CoV-2?	Canyon Crest Academy	E. Gerstin
207	<b>3rd</b>	Yu	Andrew	11	Investigation of Potential Gene Pathways Associated with Resistance to Targeted Therapy in FLT3-ITD Acute Myeloid Leukemia	Canyon Crest Academy	E. Gerstin
208	<b>1st CSEF</b>	Rupesh	Bhadra	11	Determining Genetic Biomarkers as Predictors of Response to Anti-PD 1 Cancer Immunotherapy	The Bishop's School	L. Keller
209	<b>1st CSEF</b>	Kumar Aravind	Alex Vishnu	11 11	Using Machine Learning to Repurpose FDA Drugs for the Treatment of Diabetic Cardiomyopathy	Del Norte High School	S. Kumar
210	<b>2nd</b>	Ramesh	Shivani	11	Predicting Right and Left Hemisphere Damage in Aphasia Patients Using NLP and Machine Learning	Scripps Ranch High School	P. Fowler
211	<b>2nd</b>	Sun	James	10	Type 2 Diabetes Prediction and Risk Factors Using Machine Learning Models	Canyon Crest Academy	E. Gerstin
212	<b>3rd</b>	Keiser	Miles	10	Predicting Radiosensitivity of Tumors Using Genetic Biomarkers and Machine Learning	Del Lago Academy	I. Tsigelny
213	<b>1st CSEF</b>	Chen	Trevor	10	Use of Deep-Learning to Find Inhibitors for Aldose Reductase as Treatment of Diabetic Cataracts	Westview High School	S. Halander
214	<b>3rd</b>	Bharadwaj	Akshaj	11	Predicting Gene Expression In Cancer Tissues Using Machine Learning on Histopathological Images	Canyon Crest Academy	E. Gerstin
216	<b>2nd</b>	Wang	Grace	11	Generating a Database of Experimental Data for Evaluating Algorithms for Gene Set Enrichment Analysis	Del Norte High School	J. Mortensen
217	<b>2nd</b>	Ma	Kevin	12	Variant Annotation Through a Highly-Efficient Bioinformatics Tool	Canyon Crest Academy	E. Gerstin
218	<b>2nd</b>	Pallapotu Vivek	Eshika Nithika	9 9	What Factors are Most Influential in the Spike in Influenza Levels	Del Norte High School	J. Cheskaty
219	<b>1st CSEF</b>	Nguyen Geering	Vivian Giselle	12 12	Identifying Novel Inhibitors of Cholera Toxin Subunit B	Bonita Vista High School	M. Mardahl

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<b>Senior Division - Computational Biology and Bioinformatics (CBIO) cont'd</b>							
220	<b>1st CSEF</b>	Madhukara	Nandana	10	Lipid Bilayer Bending Due to Membrane-Protein Interactions: A Computational Investigation	Canyon Crest Academy	E. Gerstin
221	<b>2nd</b>	Jeyaprakash	Arunraj	10	Artificial Intelligence Techniques for Automated Detection of Autism Spectrum Disorder Based on Mobile Camera Imaging	Canyon Crest Academy	A. Siegel
223	<b>1st CSEF</b>	Nayebnazar	Arshia	11	Precision-Recall Adversarial Network (PRAN): A Novel Deep Learning Framework for Improvement of Clinical Binary Classification	Canyon Crest Academy	T. Mauro
224	<b>1st CSEF</b>	Ganji	Vidha Yadav	9	Machine-Learning Based Early Detection of Breast Cancer Using Blood-Based Biomarkers	Del Norte High School	N. Ganji
225	<b>2nd</b>	Arora	Aarav	11	Novel Laryngeal Cancer Diagnostic Approach Using MiRNA and Metabolite Biomarkers	Del Norte High School	A. Callicott
226	<b>3rd</b>	Irigireddy	Ritvik	11	Machine-Learning Based Rapid and Efficient Diagnosis of Tuberculosis	Canyon Crest Academy	E. Gerstin
227	<b>2nd</b>	Wang	Zhijing	11	System Biology Analysis of Rheumatoid Arthritis Samples for Personalized Treatment	Canyon Crest Academy	E. Gerstin
228	<b>NS</b>	Jung	Eleanor	12	Novel Method to Image-based Intracellular Force Estimation with Discrete Differential Geometry	Mt. Carmel High School	A. Klingborg
229	<b>2nd</b>	Kulkarni	Vidhi	11	Implementation of Machine Learning-Based System for Early Diagnosis of Feline Mammary Carcinoma through Blood Metabolite Profiling	Del Norte High School	C. Craig

**Senior Division - Computer Science and Systems Software (COMP)**

241	<b>2nd</b>	Zhang	Sydney	10	EyeScore, A Point of Care Smartphone App for Dry Eye Diagnosis & Prevention	Westview High School	M. Ingram
242	<b>2nd</b>	Lu	Frederick	11	Human Pose Estimation in Determining Karate Pose Accuracy	Canyon Crest Academy	A. Mauro
243	<b>1st CSEF</b>	Chang	Melinda	11	Albio.js: A Compiler-Powered Reactivity Library for Building Performant User Interfaces	Canyon Crest Academy	E. Gerstin
244	<b>2nd</b>	Guan	Sophia	11	A Machine Learning Approach to Understanding the Determining Factors of the Gender Wage Gap	The Bishop's School	M. Jaiclin

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<b>Senior Division - Computer Science and Systems Software (COMP) cont'd</b>							
245	<b>3rd</b>	Kathiravan	Gautam	10	Machine Learning Model for Traffic Behavior Prediction in Intelligent Transport System	Canyon Crest Academy	D. Celniker
247	<b>2nd</b>	Mondal	Raunak	10	Development of Personalized Machine Learning and Data Augmentation Strategies to Diagnose Autism	Del Norte High School	J. Mortensen
249	<b>1st CSEF</b>	Xu	Shirley	12	Quantifying Size and Movement of Metal Organic Frameworks Using Computer Vision	The Bishop's School	M. Jaiclin
250	<b>1st CSEF</b>	Fan Qiao	Benjamin Edward	12 12	Deep Learning for Solving and Estimating Dynamic Macro-Finance Models	The Bishop's School	M. Jaiclin
251	<b>2nd</b>	Giometti	Collin	10	Exploring Interactive Genetic Algorithms with Music Composition	San Marcos High School	S. Shade
252	<b>1st CSEF GA</b>	Sridharan	Agastya	11	Improved Inductive Performance on Small Datasets Using Hyper-Connected Neural Architectures, C. Elegans-Inspired Networks, and Evolutionary Modeling	Scripps Ranch High School	P. Fowler
253	<b>1st CSEF</b>	Xiao Shen	Tyler Emma	11	Grow & Give	Del Norte High School	J. Cheskaty
254	<b>1st CSEF</b>	Proshkin	Alexander	12	Investigating the Synergetic Integration of Multifaceted Abstractions with Constraint Programming for Enhanced Time Interval Optimization	Canyon Crest Academy	E. Fisher
255	<b>2nd</b>	Rao	Saanvi	10	Computer Vision Based iOS App for 2 Way Communication with ASL for the Hearing Impaired	Canyon Crest Academy	A. Siegel
256	<b>2nd</b>	Rao	Rikhil	11	A Machine Learning Based Pipeline for Automated Single-Cell Quantification of Breast Cancer Marker Evolution from Serial Immunofluorescence Assays	Canyon Crest Academy	K. Hare
257	<b>1st CSEF</b>	Dagar	Arnav	9	Where's Waldo Going - A Bayesian Approach for Localizing a Moving Robot	Canyon Crest Academy	A. Siegel
258	<b>3rd</b>	Magtoto	Brianna	11	Evaluating Data Augmentation Techniques for Reducing Gender Bias in NLP Using a Pre-trained BERT Model	Bonita Vista High School	J. Ekstein
259	<b>2nd</b>	Qiu	Nathan	9	Metaverse Virtual Classroom for Enhanced Remote Engagement	Canyon Crest Academy	T. Mauro
260	<b>NS</b>	Lee	Woojin	11	Optimizing the Efficiency and Nutritional Distribution of Food Banks	Otay Ranch High School	C. Pearson
261	<b>3rd</b>	Li	Aaron	9	Sober Guardian	Francis Parker School	Y. Sun

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<b>Senior Division - Earth and Environmental Sciences (EAEV)</b>							
271	<b>3rd</b>	Hernandez	Daniel	10	How Does Ocean Acidification Affect Survival Rate of Sea Snails?	Bonita Vista High School	M. Mardahl
272	<b>2nd</b>	Enriquez Robitaille	Jonathan Olivia	11 11	Tijuana v San Diego: Ocean Water Pollution	Bonita Vista High School	J. Ekstein
273	<b>2nd</b>	Imperial	Francine Dezarae	11	How Does Increased Population Affect PM2.5 Levels in China, from 2000-2022?	Bonita Vista High School	J. Ekstein
274	<b>3rd</b>	Rhoades	Lyra	11	How Does One Country's Socioeconomic Status Correlate to Their Carbon Emissions?	Bonita Vista High School	J. Ekstein
275	<b>2nd</b>	Connors	Kaelyn	11	How Does Eutrophication Affect Porpoise Populations in the Baltic Sea?	Bonita Vista High School	J. Ekstein
276	<b>1st CSEF</b>	Kim	Hudson	10	Canopy: A Deep Learning Approach To Rainforest Deforestation Detection And Response	Westview High School	W. Kim
277	<b>3rd</b>	Noblejas	Eliza	11	How Do Major Development Projects in Otay Ranch Neglect Environmental Issues	Bonita Vista High School	J. Ekstein
278	<b>2nd</b>	Rico	Carlene	11	Human Population in Mexico's Effect on Forest and Biodiversity in Mexico	Bonita Vista High School	J. Ekstein
279	<b>3rd</b>	Roman	Alexander	11	The Effect of California Value Redemption Programs on the Environment	Bonita Vista High School	J. Ekstein
280	<b>1st CSEF</b>	Sengupta	Srija	10	Good on Land and Bad in Water: Effects of Fertilizer-Rich Runoff on Algal Growth	Westview High School	S. Halander
281	<b>2nd</b>	Zeng	Lilian	9	Fast Screening of Chemical UV Filters in Contaminated Water	Del Norte High School	J. Cheskaty
282	<b>1st</b>	Ravi	Tejas	10	Prevalence of Microplastics in Local Waters: A Quantitative Study	Canyon Crest Academy	K. Shakeri
283	<b>NS</b>	Juneau	Amelie	11	The Number of Honey-producing Bee Colonies Versus Climate Change from 1974 to 2007	Bonita Vista High School	J. Ekstein
284	<b>1st CSEF GARU2</b>	Kumar	Sanjana	11	Utilizing 3D-Printed Engineered Living Materials to Break Down Environmental Pollutants	Francis Parker School	J.Pierce
285	<b>2nd</b>	Luna	Nicolette	11	How Does Water Quality Differ in San Diego Lakes in Densely Populated Areas as Opposed to Less Populated Areas?	Bonita Vista High School	J. Ekstein
286	<b>3rd</b>	Nunez	Junalene	11	How Does Increased Pet Ownership Harm Marine Life?	Bonita Vista High School	J. Ekstein

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<b>Senior Division - Earth and Environmental Sciences (EAEV) cont'd</b>							
287	<b>1st CSEF</b>	Wise	David	11	Testing Low-Budget Water Purification Methods for Rural Areas using Physical Models	St. Augustine High School	J. Brophy
288	<b>2nd</b>	Yadav	Anvay	9	Turning Crop Waste into Energy: Numerical Simulations to Study the Impact of Blending Methanol into Gasoline on Pollutant Emissions	Del Norte High School	A. Callicott
289	<b>1st GA CSEF</b>	Xu	Kate	10	Reducing Lead Contamination through Hydroponically-Grown Mycorrhizal Plants	Del Norte High School	B. West
290	<b>1st GA CSEF</b>	Gao	Sarah	10	Identification and Experimental Characterization of Plant Seeds as Effective Flocculants for Water Treatment	Canyon Crest Academy	E. Gerstin
291	<b>2nd</b>	Arias	Eduardo	11	The Effects of Petrol and Heavy Metals on Soil	Bonita Vista High School	J. Ekstein
292	<b>2nd</b>	Marcuson	Elena	10	Are Antibacterial Products Good?	Holtville High School	B. Sorenson
293	<b>3rd</b>	Oani	Madeleine	11	How Does Ecological Footprints in Brazil, Japan, and Singapore from 2010-2020 Correlate to Their Biodiversity?	Bonita Vista High School	J. Ekstein
294	<b>2nd</b>	Robledo	Robert	12	How Has Ocean Acidification Affected the Beaches of Southern California?	Bonita Vista High School	J. Ekstein
295	<b>1st CSEF</b>	Tianshi	Kyle	11	Rapid Detection of Microplastics in Water: A Novel Light Scattering Method Using Fluorescence Emissions	The Cambridge School High School	M. Mayne

<b>Senior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR)</b>							
331	<b>1st CSEF</b>	Kim	Angelina	10	Deep Reinforcement Learning of PID Control for Rotational Wing Aerial Vehicles	The Bishop's School	M. Jaiclin
332	<b>3rd</b>	Munshi	Ronit	10	Self Balancing Robot	Canyon Crest Academy	D. Munshi
333	<b>1st GA CSEF</b>	Usher Brown	Nicholas Logan	11 11	A Differentially-Geared, Omnidirectional Robotics Platform With Autonomous Jerk-Limited Navigation	High Tech High North County	C. Sailor
334	<b>3rd</b>	Patil	Yash	10	Drunk Driving Recognition	Sage Creek High School	S. Patil
335	<b>2nd</b>	Tatineni	Nitika	11	Energy-Saving HVAC System Using Ultrasonic Sensors and Machine Learning	Canyon Crest Academy	A. Mauro



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<b>Senior Division - Engineering: Energy, Materials, and Transport (EEMT)</b>							
351	<b>3rd</b>	Sun	Ethan	10	Water Harvesting with Hydrogel	The Bishop's School	B. Heldt
352	<b>2nd</b>	Luo	Anna	9	Multi-Purpose Shelter for the Homeless	Canyon Crest Academy	E. Gerstin
353	<b>2nd</b>	Rao	Rahul	11	Algorithms for Evolutionary Aviation Network Flow Optimization Using Topological and Demographic Features	Canyon Crest Academy	K. Rao
354	<b>1st CSEF</b>	Zhang	Jocelyn	11	Enhanced Photoluminescence Performance of Porous Silicon Quantum Dots for Bioimaging Application	Del Norte High School	F. Liao
355	<b>1st CSEF</b>	Catanzaro	Marcus	11	Optimizing Heat Transfer of Cooking Surfaces Using Various Strategies of Temperature Control	Cathedral Catholic High School	M. Rafie
<b>Senior Division - Mathematics (MATH)</b>							
371	<b>1st CSEF</b>	Liu	Derek	12	Arrangements of Simplices in Fine Mixed Subdivisions	Torrey Pines High School	B. Belyea
372	<b>1st CSEF</b>	Bosworth	Rohan	12	Multi-Resolution, Multi-Heuristic, Polynomial-Based, A* Motion Planning	Poway High School	K. Woldseth
		Bosworth	Arya	9	A* Motion Planning With Semantic Consideration		
<b>Senior Division - Microbiology (MCRO)</b>							
381	<b>1st CSEF</b>	Wang	John	11	Using Resazurin Assays for Screening Herbal Extracts with Antimicrobial Activity on Oral Streptococcus mutans	Canyon Crest Academy	E. Gerstin
382	<b>2nd</b>	Kazi	Hafsah	10	The Impact of Gut Bacteria and Beta Amyloid on Yeast Cells	Bright Horizon Academy	N. Naserelddin
383	<b>1st GA CSEF</b>	Fan	Kara	12	A Self-Disinfecting Nanomaterial for Future Space Travel	Westview High School	S. Halander
<b>Senior Division - Physics and Astronomy (PHYS)</b>							
391	<b>2nd</b>	Badal	Jai	12	Color Analysis of Mars Regolith and	University City High School	S. Badal
		Badal	Rohan	10	Estimates of Surface Water on Mars		
392	<b>2nd</b>	Cai	Cindy	11	Measuring Sunspot Rotation and Exploring Its Relationship with Solar Eruption	Canyon Crest Academy	Y. Liu
393	<b>1st CSEF</b>	Chandra	Vikramaditya Sidharth	10	Pathfinder: A Novel Convolutional Neural Network for Classifying Photometric Surveys	San Marcos High School	S. Bireddy

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<b>Senior Division - Physics and Astronomy (PHYS) cont'd</b>							
394	<b>2nd</b>	Andersen	Sven	11	Precise Star Temperature and Gravity Measurements Depend on High Spectral Image Signal to Noise Ratios	San Diego High School Complex	N. Raiewski
395	<b>1st CSEF</b>	Nayak	Ayush	12	Quantum Dot based Quaternion High-Transport Transistor Technology	Westview High School	S. Halander
396	<b>2nd</b>	Dresios	Demetrios	10	Probing for Dark Stars and Drawing Conclusions on Dark Matter Using JWST	Carlsbad High School	A. Velentza
<b>Senior Division - Plant Sciences (PLNT)</b>							
401	<b>3rd</b>	Anderson Iniguez	Vivien Priscilla	11 11	How Does the Presence of 0.5% Chlorine Affect the Sprouts and Germination of Phaseolus vulgaris?	Bonita Vista High School	J. Ekstein
402	<b>3rd</b>	Delara	Sarah	11	The Effects of Acid Rain on the Growth and Germination of Lima Beans in the Span of 10 Days	Bonita Vista High School	J. Ekstein
403	<b>1st CSEF</b>	Magtoto	Cherise	11	The Effects of Ibuprofen on the Growth and Germination of Lactuca sativa.	Bonita Vista High School	J. Ekstein
404	<b>2nd</b>	Robitaille	Daniel	11	How Does Runoff Affect the Mass of Duckweed	Bonita Vista High School	J. Ekstein
405	<b>2nd</b>	Dabbah	Esther	11	Effects of Acid Rain on Growth and Health of Peas	Bonita Vista High School	J. Ekstein
406	<b>3rd</b>	Angulo Hernandez	Hiram	11	The Effect of Unused Motor Oil on Pea Plants (Pisum Sativum) Growth and Germination	Bonita Vista High School	J. Ekstein
407	<b>1st CSEF</b>	Nava	Diego	12	The Effect of San Diego River Water on Raphanus raphanistrum Seed Germination	Bonita Vista High School	M. Mardahl
409	<b>3rd</b>	Sanchez	Nicholas	11	To What Extent Does Increasing Temperature Affect the Growth and Germination of the Pinto Beans (Phaseolus vulgaris)?	Bonita Vista High School	J. Ekstein

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<b>JUNIOR DIVISION</b>							
<b>Junior Division - Animal Sciences (ANIM)</b>							
501	2nd	Shaw	Gavin	7	Ants Favorite Food and Natural Repellent	St. Gregory the Great Catholic School	S. Dasgupta
502	2nd	Franey	Mackenzie	7	Finding the Most Productive Size Flock for Backyard Chicken Owners	St. Michael's School - Poway	K. de Venecia
503	3rd	Louie	Patrick	8	What Attracts Fruit Flies?	Farb Middle School	P. Huntington
504	1st CSEF TFSJIC	Ehsan	Anabia	6	Impact of Vitamins on Planaria Regeneration: A Model for Regenerative Medicine	Bright Horizon Academy 6-8	N. Naserelddin
505	2nd	Jafari	Mariam	8	How to Determine an Animal's Status of Predator or Prey Using Its Nose to Eye Angle	The Cambridge School High School	M. Mayne
509	2nd	Tinnerstet	West	8	What's That Glow: Does Changing Dinoflagellates Light Cycles Affect Them?	Coastal Academy	B. Biernacki
510	2nd	Barroso	Isabella	7	The Circadian Rhythm Of Bioluminescence In Dinoflagellates	Nativity School	L. McTavish
511	2nd	Breskin	Nosson	8	Natural Vs Processed: Which is Better	San Diego Hebrew Day School	S. Jones
512	NS	Evans	Mia	8	Which Food Will Red Worms Consume the Quickest?	Mt. Helix Academy	K. MacDonald
513	2nd	Myers	Gabriel	8	Which Sock Will the Dog Sniff Longer?	San Diego Hebrew Day School	S. Jones
514	2nd	Kang Balderrabano	Ella Luciana	8 8	What Food Makes a Painted Lady Butterfly Grow the Fastest?	Stella Maris Academy	S. Eckmann
515	1st CSEF TFSJIC	Ajanovic	Aya	7	Red-40 Effect on Daphnia	Bright Horizon Academy 6-8	N. Naserelddin
<b>Junior Division - Behavioral and Social Sciences (BEHA)</b>							
521	2nd	Rohling	Trevor	7	Do You Hear What You See?	St. Gregory the Great Catholic School	S. Dasgupta
522	2nd	Quezada	Lily	7	Feelings of a Flower: Emotions Conveyed from Art	St. John School - Encinitas, CA	G. Heins
523	1st	Schere	Bella	7	Modern Remake of the Stanford Marshmallow Experiment	The Children's School	D. Quincannon

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<b>Junior Division - Behavioral and Social Sciences (BEHA) cont'd</b>							
524	<b>1st CSEF</b>	Rodriguez	Eric	8	Stroop Effect: Rotating Labels in Shapes and Their Effect on Response Time	Mt. Helix Academy	K. MacDonald
525	<b>1st CSEF</b>	Perham	Josephina	7	The Effect of Age and Gender on Purchasing and Awareness of Purchases	The Children's School	D. Quincannon
526	<b>3rd</b>	Bausch	Kira	8	The Pressure in Personal Space Invasion	St. John School - Encinitas, CA	G. Heins
527	<b>2nd</b>	Brocius Murphy	Ashton John	7 7	Music and Math	The Children's School	D. Quincannon
528	<b>3rd</b>	Kuckenbaker Loebig	Brooke Maya	8 8	The Bias Buster: Bias in a Photo Line Up	St. John School - Encinitas, CA	G. Heins
530	<b>3rd</b>	Goncalves	Lily	8	Acts of Deception	St. John School - Encinitas, CA	G. Heins
531	<b>3rd</b>	Meehan	Robert	7	The Effects of Different Cell Phone Distractions While Driving	Mt. Helix Academy	K. Macdonald
533	<b>2nd</b>	Perkins Potter	Philip Mason	7 7	The Effect of Video Games on Short-Term Memory	St. Gregory the Great Catholic	S. Dasgupta
534	<b>3rd</b>	Robertson	Lana	7	Which Factors Indicate If a Yawn Could Be Contagious	Mt. Helix Academy	K. MacDonald
535	<b>3rd</b>	O'Dea	Emma	7	Do Different Colors of Paper Affect the Way a Student Does on a Test?	Nazareth School	M. Reed
537	<b>1st CSEF TFSJIC</b>	Abdulaziz	Omar	7	Gender Stereotypes in Early Childhood Development	Bright Horizon Academy 6-8	N. Nasereldin
538	<b>1st</b>	Go	Olivia	7	Assessing Empathetic Results Based on Audio vs Visual Stimuli	The Rhoades School	R. Hunker
539	<b>1st CSEF</b>	Ravi	Medha	7	EarYe! EarYe!: Effects of Earbuds, Ordinary Headphones, and Noise-Canceling Headphones on Desired Music Decibel Level	The Rhoades School	R. Hunker
540	<b>3rd</b>	Stidman	Sofia	7	Does Screen Time Affect How Often You Blink?	Nazareth School	M. Reed
541	<b>3rd</b>	Gardner	Molly	7	How Color Affects Perception of Foods and Drinks	Mt. Helix Academy	K. MacDonald
542	<b>1st GA CSEF TFSJIC</b>	Long	Lily	8	Exploring Academic Setting Applications of a Turing Test Derivative	The Rhoades School	R. Hunker
543	<b>2nd</b>	Kalapala	Isabella	8	The Zodiac Personality Test	St. Peter the Apostle Catholic School	E. Czarnowski
544	<b>1st CSEF TFSJIC</b>	Weiser	Menachem	8	Forward Engineering vs Reverse Engineering	San Diego Hebrew Day School	S. Jones
545	<b>2nd</b>	Boniske	Joey	8	Does Test Format Affect Reading Comprehension Performance	San Diego Hebrew Day School	S. Jones

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<b>Junior Division - Behavioral and Social Sciences (BEHA) cont'd</b>							
546	<b>2nd</b>	Bartos Sisitki	Cielo Sofia	8 8	Do Right-Handed or Left-Handed Teens Adapt Faster to Switching Dominant Hands?	Stella Maris Academy	S. Eckmann
547	<b>3rd</b>	Kantorovich	Yosef	8	How Does Your Temperament Affect Your Team Working Ability?	San Diego Hebrew Day School	S. Jones
548	<b>3rd</b>	Kent	Giuliana	7	Fidgets Are Just Toys...Or Are They?	Nazareth School	M. Reed
<b>Junior Division - Biochemistry (BCHM)</b>							
583	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Bantval	Maya	6	Detection and Comparison of Vitamin C Enriched Beverages	Sage Canyon Elementary School	K. Arthur
584	<b>3rd</b>	Trujillo	Ashlyn	8	Holy Water Take 2	St. Peter the Apostle Catholic	E. Czarnowski
585	<b>1st</b> <b>CSEF</b>	Qarar	Yusra	7	Will Soaking Food in Water Before Cooking Remove Starch from It?	Bright Horizon Academy 6-8	N. Naserelddin
586	<b>2nd</b>	Zwierzykowski	Katrina	8	Effect of Time and Ripeness on Vitamin C Levels on Fruits	City Tree Christian School 6-8	M. Lee
<b>Junior Division - Biomedical/Health Sciences and Bioengineering (BMDE)</b>							
601	<b>3rd</b>	Parthiban	Sidhaarth	7	Effects of Various Concentrations of Nicotine on Monocyte	The Cambridge School High School	M. Mayne
602	<b>1st</b> <b>GA</b> <b>CSEF</b> <b>TFSJIC</b>	Chen	Steven	7	Magnetically-Powered Micro Train	Pacific Trails Middle School	A. Milholland
603	<b>2nd</b>	Roy	Phoebe	7	What UPF Fabric is the Best at Repelling UV Radiation?	Nazareth School	M. Reed
604	<b>1st</b> <b>GARU2</b> <b>CSEF</b> <b>TFSJIC</b>	Bantval	Dhruv	8	Smart Glove with ASL-to-Speech Conversion to Assist the Hearing Impaired	Pacific Trails Middle School	E. Main
605	<b>3rd</b>	Siddiqui	Aminah	7	Vitamins Against Free Radicals	Bright Horizon Academy 6-8	N. Naserelddin
606	<b>2nd</b>	Rull	Andreas	8	Too Hot for Sopt	St. John School - Encinitas, CA	G. Heins
607	<b>1st</b> <b>CSEF</b>	Jaimovich Sayed	Adam Zakari	7 7	Efficacy of Various Spice Extracts in Combating Potential Stimulant Hazards	The Rhoades School	R. Hunker
609	<b>1st</b> <b>CSEF</b>	Aly	Omar	7	The Effect of Weight Training for Throwing a Football	Bright Horizon Academy 6-8	N. Naserelddin
611	<b>1st</b>	Cantorna	Eva	7	Do People with Different Eye Visions Have Different Blind Spots?	Nazareth School	M. Reed
612	<b>3rd</b>	Birch	Sophia	6	The Effect of Different Edible Liquids in Protecting Model Esophagus from Swallowed Batteries	City Tree Christian School 6-8	M. Lee

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<b>Junior Division - Cellular and Molecular Biology (CELL)</b>						
633	<b>2nd</b>	Holmlin	Mikaela	8	Evaluating the Use of Chromosomal Aberration and Structural Variation to Identify Sex, Ethnicity and Age from DNA Samples	The Children's School D. Quincannon
<b>Junior Division - Chemistry (CHEM)</b>						
641	<b>2nd</b>	Escotet	Santiago	8	Does Flour Affect the Height of a Cookie?	All Hallows Academy A. Branson
642	<b>1st</b> <b>GARU2</b> <b>CSEF</b> <b>TFSJIC</b>	Vignevic	Jake	7	Measuring Protein and Vitamin C Level in Foods after Different Types of Cooking	St. Gregory the Great Catholic School S. Dasgupta
643	<b>3rd</b>	Corona	Gianluca	8	Scoville Heat Units	All Hallows Academy A. Branson
644	<b>3rd</b>	Spooner	Casey	7	Testing Water from Different Zip Codes	St. Gregory the Great Catholic School S. Dasgupta
645	<b>2nd</b>	Venverloh	Nora	8	The Effects of Different pH Level Waters In Rotting Food	The Children's School D. Quincannon
646	<b>2nd</b>	Huebscher	Rebekah	6	Dyeing Natural and Synthetic Fabrics	Heritage Christian School E. Huebscher
647	<b>1st</b>	Lindsey	Ashlie	8	The Effect of Water Temperature on Ammonium Nitrate Activation	City Tree Christian School 6-8 M. Lee
<b>Junior Division - Computer Science and Systems Software (COMP)</b>						
681	<b>3rd</b>	Pathria	Sachin	8	Creating a Model to Forecast Change in Prescription Drug Prices	The Children's School D. Quincannon
682	<b>3rd</b>	du Preez	Benjamin	7	How Does Mass Affect an Active Ragdoll?	St. Gregory the Great Catholic School S. Dasgupta
683	<b>2nd</b>	Ko	Lyla	7	The Effects of Light and Distance on Face ID	St. Gregory the Great Catholic School S. Dasgupta
684	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Diep	Emily	7	Virtual Piano Teacher - Personalized Piano Lessons	Connect Academy Poway Unified J. Teixeira
685	<b>3rd</b>	Adamson	Parker	8	Can an Arduino Control a Lamp?	All Hallows Academy A. Branson
686	<b>1st</b> <b>GA</b> <b>CSEF</b> <b>TFSJIC</b>	Xu	Kayley	8	Respiratory Sound Classification Using AI	The Bishop's School J. Jordan

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<b>Junior Division - Earth and Environmental Sciences (EAEV)</b>							
701	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Kozak	Patrick	7	Are The Homeless Encampments Along Rose Creek Polluting It's Water?	All Hallows Academy	A. Branson
702	<b>1st</b> <b>CSEF</b>	Allport	Alexander	7	Corn Husks Get More Done	The Children's School	D. Quincannon
703	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Matkov	McKayla	8	The Effect of Particle Size on the Rate of Erosion through Wave Action	The Children's School	D. Quincannon
704	<b>1st</b> <b>CSEF</b>	Cooper	Aaron	6	The Effect of the Moon and Sun's Gravitational Force on Volcanic Eruptions	Community Montessori Charter School Carlsbad	I. Cooper
705	<b>2nd</b>	Weyer	Sammy	8	The Effects of Primary and Secondary Colors on the Temperature of Water	All Hallows Academy	A. Branson
706	<b>3rd</b>	Stevens	Mia	7	The Sunshine Tax	All Hallows Academy	A. Branson
707	<b>2nd</b>	Marce	Bernardo	8	What is the Best Way to Dispose of Biodegradable Products? A Year 3 Study	Our Lady of Guadalupe Academy	J. Patton
708	<b>3rd</b>	Rowe Revilla-Harker	Tyler Joaquin	7 7	The Effects of Different Waters on the Growth of Grass	St. Gregory the Great Catholic School	S. Dasgupta
709	<b>3rd</b>	Wroblewski	Mila	7	Effect on Coral after Sand Disturbances	Thurgood Marshall Middle School	N. Wroblewski
710	<b>NS</b>	Mohammad	Aamina	7	Plastic Sorting Using Machine Learning	Bright Horizon Academy 6-8	N. Naserelddin
711	<b>2nd</b>	Musse	Omar	7	Which Aquatic Plant Absorbs Oil the Best?	Bright Horizon Academy 6-8	N. Naserelddin
712	<b>3rd</b>	Salmeron	Yandel	8	Which Type of Produce will be Disposed the Most: Fruit or Vegetables?	Chula Vista Middle School	T. Tom
713	<b>3rd</b>	Tapia	Afrika	8	Are San Diego Freshwater Habitats pH Healthy for Bluegill Fish to Inhabit?	Chula Vista Middle School	T. Tom
714	<b>2nd</b>	Naveed	Haadi	8	Will Chelation Help the Plants from Heavy Metal Toxicity	Bright Horizon Academy 6-8	N. Naserelddin
715	<b>2nd</b>	Ayesta Hollstein Huschke	Sebastian Tim	8 8	The Effects of Different Conditions on Solar Panel Output Efficiency	Stella Maris Academy	S. Eckmann
716	<b>2nd</b>	Trevino	Nythalia	8	Can a Homemade Water Filter Remove Harmful Substances from San Diego's River?	Chula Vista Middle School	T. Tom
<b>Junior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR)</b>							
731	<b>2nd</b>	Zhu	Virginia	7	Counterweight Trebuchet Design Optimization	Oak Valley Middle School	Y. Yu

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<b>Junior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR) cont'd</b>							
732	<b>2nd</b>	Powers	McCoy	7	Designing and Building a Vending Machine for Chickens	Coastal Academy	B. Biernacki
733	<b>3rd</b>	Austin	Reed	7	The Pulley Wheel	St. John School - Encinitas, CA	G. Heins
734	<b>3rd</b>	Denning	Will	8	Which is a Safer Option, a Phone or a Computer?	All Hallows Academy	A. Branson
735	<b>1st</b>	Richardson	Ryan	7	Conserving Water Using an Automatic Faucet	St. John School - Encinitas, CA	G. Heins
736	<b>2nd</b>	Cena	Abby	7	The Effect of the Base Shape of a Pyramid on Its Weight Bearing Capacity	St. Michael's School - Poway	K. de Venecia
738	<b>1st CSEF</b>	Ouchmame	Zackaria	7	Smart Medicine Cabinet	Bright Horizon Academy 6-8	N. Nasereldin
739	<b>2nd</b>	Conway	Sophia	7	Electromagnetic Efficiency	Mt. Helix Academy	K. MacDonald
740	<b>3rd</b>	Hamel	Leo	8	How Does Weight Affect a Drone	Mt. Helix Academy	K. MacDonald

<b>Junior Division - Engineering: Energy, Materials, and Transport (EEMT)</b>							
751	<b>1st CSEF TFSJIC</b>	Montemayor	Maliya	8	Honeycombs - Not Just for the Bees: Optimizing Cell Types for Architecture	St. John School - Encinitas, CA	G. Heins
752	<b>2nd</b>	Macinnes	William	7	How Chord Length Affects the Efficiency of Propellers	St. Gregory the Great Catholic School	S. Dasgupta
753	<b>1st CSEF TFSJIC</b>	Pacente	Jack	7	Improving Compression Strength of Polyethylene Terephthalate Glycol (PETG) through the Process of Annealing	Mt. Helix Academy	K. MacDonald
754	<b>3rd</b>	Raagas	Caleb	7	Salinity Levels Effects on Hydroelectricity	St. Gregory the Great Catholic School	S. Dasgupta
755	<b>3rd</b>	Kalkin	Rebecca	7	Testing Different Heat and Light Sources to Power a Solar Car	St. Gregory the Great Catholic School	S. Dasgupta
756	<b>2nd</b>	O'Leary	Caroline	7	The Effects of Rotating Solar Panels Vs. Fixed Solar Panels: Which Will Produce More Power Output?	St. Gregory the Great Catholic School	S. Dasgupta
757	<b>3rd</b>	Kehrli	Jack	7	The Optimal Surface for Soccer Players	All Hallows Academy	A. Branson
758	<b>2nd</b>	Neubrand	Colt	7	What Type of Bat Provides More Distance: Wood or Composite?	Nazareth School	M. Reed



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<b>Junior Division - Engineering: Energy, Materials, and Transport (EEMT) cont'd</b>						
759	<b>2nd</b>	Poch Schelper	Maia Leilani	7 7	Portable Desalination	The Children's School D. Quincannon
760	<b>2nd</b>	Sparks Solomon	Carter Gabe	7 7	Fishing Line Strength Test	St. Gregory the Great Catholic Sc S. Dasgupta
761	<b>3rd</b>	Rhodes	Kevin	8	How Color Affects Heat Absorption	De Portola MS M. Bridges
762	<b>2nd</b>	Poulin	Madeline	7	Does the Design of a Bridge Affect How Much Weight It Can Hold?	Nazareth School M. Reed
763	<b>2nd</b>	Zubaidi	Ahmad	7	A Solution to Earthquake-Proof Affordable and Sustainable Housing in San Diego	Bright Horizon Academy 6-8 N. Naserelddin
764	<b>1st</b> <b>GARU1</b> <b>CSEF</b> <b>TFSJIC</b>	Zeller	Keanu	7	Tilt Angle Effects on Eddy Current Impacts	The Rhoades School R. Hunker
765	<b>3rd</b>	Powers	John	7	Investigating Optimal Weight Distribution for Stability of a Homemade ROV	The Rhoades School R. Hunker
767	<b>2nd</b>	Adler	Ben	8	What Is the Best Spray for Your Football Gloves?	San Diego Hebrew Day School S. Jones
768	<b>1st</b>	Anthony	Adam	8	Testing and Comparing the Strengths of Homemade Bioplastics	De Portola Middle School M. Bridges
769	<b>3rd</b>	Ladisa	Michael	7	Which Types of Water Bottles (Plastic, Metal or Insulated) Maintain Water at a Lower Temperature?	Nazareth School M. Reed
770	<b>1st</b> <b>CSEF</b>	Allende	Carmina	7	How Do Different Surfaces of Tennis Courts Affect the Way a Ball Bounces	Nazareth School M. Reed
771	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Parthasarathy	Jeyanth Narayan	7	Effects of Reverse Vertical Stabilizers on Aeroplanes	Pacific Trails Middle School A. Milholland
<b>Junior Division - Microbiology (MCRO)</b>						
801	<b>1st</b>	Trinh	Reagan	7	Effects of Natural Preservatives on Fruit	St. Gregory the Great Catholic Sc S. Dasgupta
802	<b>3rd</b>	Wilson	Mia	7	Kitchen Hygiene	All Hallows Academy A. Branson
803	<b>1st</b> <b>CSEF</b> <b>TFSJIC</b>	Leem	Ethan	8	Most Effective Natural Anti-Bacterial Agent	Pacific Trails Middle School E. Main
804	<b>2nd</b>	Donboli	Stella	7	The Effect of Household Cleaners on Bacteria	St. Gregory the Great Catholic Sc S. Dasgupta
805	<b>NS</b>	Hashemi	Emilia	7	The Rate of Bacterial Growth on Water Bottles, Keyboards, and Air Pods on a Period of 3 Days	St. Michael's School - Poway L. Ray

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<b>Junior Division - Microbiology (MCRO) cont'd</b>							
806	<b>1st CSEF</b>	Capetanakis	Victoria	7	Which Harbors More Bacteria: a Phone or a Toilet?	St. John School - Encinitas, CA	G. Heins
808	<b>2nd</b>	Alcaraz	Gianna	8	Germes Against Liquid Hand Soap	Chula Vista Middle School	T. Tom
809	<b>1st CSEF TFSJIC</b>	Capaldi	Charlotte	7	Investigating the Effectiveness of a UVC Wand on Bacteria Mortality	The Rhoades School	R. Hunker
810	<b>3rd</b>	Miranda	Biancka	8	Germes in Gyms	Chula Vista Middle School	T. Tom
811	<b>1st</b>	Paband	Khadija	7	How Well Does Expired Hand Sanitizer Work?	Bright Horizon Academy 6-8	N. Nasereldin
812	<b>3rd</b>	Eiseman	Maxwell	8	LEDs Effect on Bacteria	San Diego Hebrew Day School	S. Jones
813	<b>2nd</b>	Horowitz	Avinadav	8	The Effect of Salt, Tap, and Carbonated Water on Bacteria Growth	San Diego Hebrew Day School	S. Jones
814	<b>2nd</b>	Lugasi	Eliyahu	8	Artificial Vs Natural UV Light	San Diego Hebrew Day School	S. Jones
815	<b>3rd</b>	Nakach	Jayden	8	Does a Different Environment Affect Bacteria Growth?	San Diego Hebrew Day School	S. Jones

<b>Junior Division - Physics and Astronomy (PHYS)</b>							
821	<b>2nd</b>	Ortiz Calva	Jose	8	Does the Color of a Glass Bottle Affect Temperature Change?	All Hallows Academy	A. Branson
822	<b>3rd</b>	Bomar	Dylan	8	How Fast Do Mario Kart Hot Wheel Go on a Loop Track	Mt. Helix Academy	K. MacDonald
823	<b>1st CSEF TFSJIC</b>	Hulse	Madison	7	The Effect of String Tension on a Tennis Racket's Power	Nazareth School	M. Reed
824	<b>2nd</b>	Bailey	Lauren	7	How the Speed of Rotor Blades Affects the Amount of Lift on Helicopters	Coastal Academy	B. Biernacki
825	<b>1st</b>	Soukup	Branden	8	The A, B, and C's of UV Radiation	Mt. Helix Academy	K. MacDonald
826	<b>2nd</b>	Susan	Rachel	8	LED vs Incandescent: Which Performs Better?	Coastal Academy	B. Biernacki
827	<b>2nd</b>	Nguyen	Kristine	8	Size and Magnetic Power	Chula Vista Middle School	T. Tom
828	<b>3rd</b>	Nagal	Matthew	8	Using the Solar and Heliospheric Observatory Satellite to Measure the Motion of a Coronal Mass Ejection and Calculating Their Arrival Speeds to Earth	Mt. Helix Academy	K. MacDonald
829	<b>3rd</b>	Mitchell	Reid	7	What Is the Best Weather Condition to Throw a Football	Mt. Helix Academy	K. MacDonald

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<b>Junior Division - Physics and Astronomy (PHYS) cont'd</b>						
830	<b>1st CSEF</b>	Chen	Zoey	7	Circling around Earth or the Sun? Using a Cell Phone APP to Reconstruct Orbits of the Moon and Planets in the Sky	Carmel Valley Middle School T. Kim
831	<b>1st GA CSEF TFSJIC</b>	Owen	Brooklynn	7	Putts to Perfection: Comparing Repeatability of Heavy and Light Putters	Classical Conversations K. Owen
832	<b>1st CSEF TFSJIC</b>	Carreon	Marcello	8	Does the Amount of Wire on a Guitar Pickup Affect Sound	All Hallows Academy A. Branson
834	<b>2nd</b>	Hettena	Evan	7	What's the Fastest Way to Cool a Soda	Mt. Helix Academy K. MacDonald
835	<b>1st CSEF TFSJIC</b>	Arnaudy	Elodie	7	Flipping Fast: The Effect of Body Shape on Flip Speed	City Tree Christian School 6-8 M. Lee
836	<b>1st CSEF</b>	Marsh	Olivia	8	Moon and Star Light	Eastlake Middle School A. Thacker

<b>Junior Division - Plant Sciences (PLNT)</b>						
851	<b>3rd</b>	Ally	Remy	7	A Sweet Approach to Fun Flowers	St. Michael's School - Poway W. Wolters
852	<b>2nd</b>	Leonhardt	Jake	8	Can Lawn Watering Be Cut In Half?	All Hallows Academy A. Branson
853	<b>2nd</b>	Muir	Madison	8	Compost Vs. Soil, Which Boosts Plant Growth?	The Children's School D. Quincannon
854	<b>1st CSEF TFSJIC</b>	Ffrench	Ellarose	7	Effect of Reclaimed, RO, and Well Water on Radishes	St. Gregory the Great Catholic School S. Dasgupta
855	<b>2nd</b>	Andersen	Noah	8	Effects of Reduced Water on Growth of St. Augustine, Sea Thrift and Fescue	De Portola Middle School M. Bridges
856	<b>3rd</b>	Flores	Sebastian	8	Which Liquids Will Keep a Pear from Oxidizing for the Longest Period?	Mt. Helix Academy K. MacDonald
857	<b>3rd</b>	Zettle	Emily	8	Will Vegetables Grow Better with Artificial versus Natural Light?	St. John School - Encinitas, CA G. Heins
858	<b>3rd</b>	Garrity	Ruth Simon	7 7	The Power of Fruit	The Children's School D. Quincannon
860	<b>1st</b>	Hooper Gramme	Clare Reese	7 7	Does Petroleum-based Food Dye and Aspartame Artificial Sugar Affect the Growth of Radish Plants?	St. Gregory the Great Catholic School S. Dasgupta
861	<b>1st</b>	Capetanakis	Yianna	8	What is the Ideal Amount of Water to Grow Romaine Lettuce Plants?	St. John School - Encinitas, CA G. Heins
863	<b>1st GARU1 CSEF TFSJIC</b>	Sternson	Samuel	7	Production of Natural UV-absorbing Sunscreens in Plant Leaves	The Rhoades School R. Hunker

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Proj IC Award	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
<b>Junior Division - Plant Sciences (PLNT) cont'd</b>							
864	<b>2nd</b>	Arnold	Wyatt	8	Do Different Plants Affect the Pesticide Level in Pesticide Runoff?	Mt. Helix Academy	K. MacDonald
865	<b>1st</b>	Sung	Ihan	8	Is Growing Succulents in Water Faster than Growing Them in Soil?	Eastlake Middle School	A. Thacker
866	<b>3rd</b>	Armstrong	Maya	8	Capillary Action of Water in Plants	Mt. Helix Academy	K. MacDonald
867	<b>1st</b>	Birch	Charlotte	8	The Effect of pH on Growing Cress in Lunar Soil Simulant	City Tree Christian School 6-8	M. Lee
868	<b>2nd</b>	Hall	Kennedy	8	What Kind of Flower Food is Best to Keep a Bouquet Fresh?	Mt. Helix Academy	K. MacDonald
869	<b>2nd</b>	Larsen	Tymbur	6	The Effects of Water Types on Chia Seed Growth	City Tree Christian School 6-8	M. Lee
870	<b>1st</b>	Villarroel	Emerson	7	The Effect of Paper Bags on Plums Ripening Process	City Tree Christian School 6-8	M. Lee
871	<b>3rd</b>	Bruno Onstott	Liz Katherine	8 8	L.L.T.B.P (LED Light Test on Bonnie Succulent Plants)	Stella Maris Academy	S. Eckmann
<b>Junior Division - Product Testing (PROD)</b>							
891	<b>1st CSEF</b>	Zwahlen	Maddie	7	Comparing Extracted	St. Gregory the Great Catholic School	S. Dasgupta
892	<b>2nd</b>	Maldonado	Sebastian	8	What is the Optimal Skate Wax for Street Skating?	All Hallows Academy	A. Branson
893	<b>2nd</b>	Schroeder	Jorge	8	Which Insulated Water Bottle Can Keep Cold Water the Longest?	All Hallows Academy	A. Branson
894	<b>3rd</b>	Chang	Iason	8	Which Pen Lasts the Longest?	Mt. Helix Academy	K. Macdonald
895	<b>2nd</b>	Amon	Pablo	7	Which Scooter Bearing Cream Allows for the Longest Spin?	All Hallows Academy	A. Branson
896	<b>1st</b>	Benjalil	Lillianna	8	The Effect of Cleaning Products and their Efficiency in Eliminating Smoke Damage	Mt. Helix Academy	K. MacDonald
897	<b>2nd</b>	Gallego	Demetrio	8	Which is the Thickest Pasta Sauce	All Hallows Academy	A. Branson
898	<b>2nd</b>	Moreno	Antonio	8	Soda's Impact on Staining Teeth	St. Peter the Apostle Catholic School	E. Czarnowski
899	<b>1st</b>	Shaikh	Zaid	7	Antacids: Synthetic vs. Natural	Bright Horizon Academy 6-8	N. Naserelddin

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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
<b>Junior Division - Product Testing (PROD) cont'd</b>							
900	<b>2nd</b>	Ezquivel	Layla	8	What Brand of Soil Absorbs the Most Water	Chula Vista Middle School	T. Tom
902	<b>1st</b>	Mizan	Almog	8	Detergents Vs. Stains	San Diego Hebrew Day School	S. Jones
903	<b>3rd</b>	Kennedy	Madelyn	7	Leaving the Least Dog Hair: Microfiber, Vinegar, Packing Tape, & a Lint Roller	St. Michael's School - Poway	W. Wolters
904	<b>1st</b>	Lau	Alexis	8	The Mouthwash Brand that is Best at Getting Rid of Bacteria	Mt. Helix Academy	K. MacDonald
905	<b>2nd</b>	Leal	Lorenzo	8	What Lotion Moisturizes the Best	Mt. Helix Academy	K. MacDonald
906	<b>2nd</b>	Nguyen	Apollo	7	Which Plastic is Strongest Against Weight Dropping, High Heat, and Bending? ABS, PLA, or PETG?	Nazareth School	M. Reed
907	<b>3rd</b>	Shores	Adriano	7	Which Type of NFL Mouthguards Are the Best?	Nazareth School	M. Reed

