

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 & Engineering Fair Nominee</i>	
						<i>TFSJIC: Thermo Fisher Scientific Junior Innovators Challenge Nominee</i>	

SENIOR DIVISION

Senior Division - Animal Science (ANIM)

101	1st CSEF	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	3rd	Ramirez	Cameron	10	Effectiveness of Students' Time Management on GPA	Central Union High School	L. Rueda
112	1st	Foss	Spencer	10	The Sunk Cost Fallacy and the Applications of Priming	S. D Jewish Academy	P. Hagarman
113	NS	Kuemmerle	Nolan	12	To What Extent is There a Correlation Between Age and Reaction Time?	Bonita Vista High School	M. Mardahl
115	2nd	Garg	Aarushi	10	Silent Epidemic in the U.S.: Sleeplessness Amongst Teens	Canyon Crest Academy	E. Gerstin
116	1st CSEF	Khan	Safwa	11	Learned Helplessness on Academic Performance across Different Age Groups	Bright Horizon Academy	N. Nasereldin
117	3rd	Na	Grace	11	The Effects of Religion on BVH Students' Environmental Philosophies	Bonita Vista High School	J. Ekstein
118	3rd	Sunga	Eiffel	12	The Effect of Income on BVH Students' Ability to Live Sustainably	Bonita Vista High School	J. Ekstein
119	3rd	Wu	Jialu	10	Text-to-Image to Increase Reading Comprehension in Lower and Middle School Students	La Jolla Country Day School	D. Lenzen
120	2nd	McGreevy Park	Isaac Alex	11	Determining the Effects of Intense Focus on Auditory Memory	La Jolla High School	K. Dill
121	3rd	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	3rd	Ibarra Almanza	Melany	10	Effects of Ultraviolet Rays on Gelatin	Central Union High School	L. Rueda
142	1st CSEF	Martin	Jaden	11	The Concentration Difference of Proteins During Different Stages of Lactation in Bovines	Central Union High School	L. Rueda
143	3rd	Nandhimandalam	Medha	11	Exploring the Effect of Turmeric Absorption with Black Pepper-Turmeric Combination	Westview High School	D. McMartin

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Proj ID		Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
Senior Division - Biochemistry (BCHM) cont'd							
144	1st CSEF	Tsui	Andrew	11	Novel High-Throughput Screening and Identification of FDA-Approved Drugs for Alzheimer's Disease Treatment	Canyon Crest Academy	A. Siegel
145	NS	Caballero	Noah	12	Effect of Inhibitors on Functionality of Phenolase in Apples	Bonita Vista High School	M. Mardahl
Senior Division - Biomedical/Health Sciences and Bioengineering (BMDE)							
151	2nd	Barrett Cano	Aimee Sofia	12 12	Most Common Complications in Patients from Bariatric Surgery	Central Union High School	L. Rueda
152	2nd	Dai	Nathan	11	Diagnosis of Mpox Using Machine Learning with a Convolutional Neural Network	Canyon Crest Academy	E. Gerstin
153	1st CSEF	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	2nd	Garcia Barbosa	Seleena	12	Does Aerobic Exercise Affect the Performance of Memorization?	Bonita Vista High School	M. Mardahl
155	1st CSEF	Kalyanaraman	Anirudh	10	Cobinamide - A Novel Antioxidant to Protect Against Polyaromatic Hydrocarbon-Induced Cardiac Cytotoxicity	Mt. Carmel High School	A. Klingborg
156	2nd	Quezada	Jayne	12	To What Extent Does Gender Affect the Patellar Reflex?	Bonita Vista High School	M. Mardahl
157	1st CSEF	Krishnan	Maya	11	Effect of Human Dermal Fibroblast Cells on Lipopolysaccharide (LPS)-Induced Neuroinflammation	La Jolla Country Day School	D. Valji
159	3rd	Alcantara	Mikha	12	How Does Classical Music Compare to Horror Music in Manipulating Heart Rate	Bonita Vista High School	M. Mardahl
160	3rd	Fries	Sam	11	Compression: Performance Enhancing or Not	St. Augustine High School	T. Fries
161	2nd	Hussain	Daanya	11	Sugars vs Sweeteners: Detrimental Effects on Bodily Functions	Bright Horizon Academy	N. Nasereldin
162	1st CSEF	Day	Andrew	11	Gasping for Air? Blame Neanderthals.	Torrey Pines High School	B. Belyea
163	1st CSEF	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	2nd	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	1st CSEF	Khattar	Zinia	10	Discovery of Stress Pathways Targets to Map Gene Function on Regulatory Networks	Del Norte High School	J. Cheskaty
167	1st	Ganji	Vibha Yadav	9	Deep Learning Based Approach for Detection of Epileptogenic Zone Using HFO Events	Del Norte High School	N. Ganji
168	1st CSEF	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	2nd	Cao	Shannon	11	Proteomic Analysis of Epithelial Cell Polarity Complexes Using TurboID, g:Profiler, and Cytoscape	La Jolla High School	J. Zhang
182	2nd	Sun	Grace	12	Exploring the Contribution of Innate Immune Cells to Breast Cancer Immunotherapy	The Bishop's School	L. Keller
183	3rd	Patel	Shreeya	10	Analysis of p53 Target Genes in Senescent Cells	Del Norte High School	C. Craig
Senior Division - Chemistry (CHEM)							
191	1st CSEF	Kulkarni	Rishika	11	Novel PSS-Driven Ligand Exchange on the Surface of Gold Nanocubes	Francis Parker School	J.P. Pierce
192	1st CSEF	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)							
201	1st CSEF	Pai	Krish	10	Deep Learning Diagnosis and Reconstruction of Gastrointestinal Disorders from Capsule Endoscopy Videos	Canyon Crest Academy	E. Gerstin
202	1st GARU1 CSEF	Dogra	Saanvi	9	Investigating the Underlying Molecular Patterns in Aggressive Brain Tumor ETMR	Del Norte High School	S. Dhanda
203	1st CSEF	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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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
Senior Division - Computational Biology and Bioinformatics (CBIO) cont'd							
204	3rd	Lu	Daniel	11	Early Prediction of Diabetes Using Machine Learning Techniques on Multiple Datasets	Westview High School	S. Halander
205	2nd	Samy	David	11	Accelerating Cancer Drug Discovery through an Algorithmic Approach to Identifying Leads Against Target Protein Kinases	Canyon Crest Academy	K. Hare
206	3rd	Wang	Chloe	10	How Long Will It Take to Exhaust All Possible Mutations of SARS-CoV-2?	Canyon Crest Academy	E. Gerstin
207	3rd	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	1st CSEF	Rupesh	Bhadra	11	Determining Genetic Biomarkers as Predictors of Response to Anti-PD 1 Cancer Immunotherapy	The Bishop's School	L. Keller
209	1st CSEF	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	2nd	Ramesh	Shivani	11	Predicting Right and Left Hemisphere Damage in Aphasia Patients Using NLP and Machine Learning	Scripps Ranch High School	P. Fowler
211	2nd	Sun	James	10	Type 2 Diabetes Prediction and Risk Factors Using Machine Learning Models	Canyon Crest Academy	E. Gerstin
212	3rd	Keiser	Miles	10	Predicting Radiosensitivity of Tumors Using Genetic Biomarkers and Machine Learning	Del Lago Academy	I. Tsigelny
213	1st CSEF	Chen	Trevor	10	Use of Deep-Learning to Find Inhibitors for Aldose Reductase as Treatment of Diabetic Cataracts	Westview High School	S. Halander
214	3rd	Bharadwaj	Akshaj	11	Predicting Gene Expression In Cancer Tissues Using Machine Learning on Histopathological Images	Canyon Crest Academy	E. Gerstin
216	2nd	Wang	Grace	11	Generating a Database of Experimental Data for Evaluating Algorithms for Gene Set Enrichment Analysis	Del Norte High School	J. Mortensen
217	2nd	Ma	Kevin	12	Variant Annotation Through a Highly-Efficient Bioinformatics Tool	Canyon Crest Academy	E. Gerstin
218	2nd	Pallapotu Vivek	Eshika Nithika	9 9	What Factors are Most Influential in the Spike in Influenza Levels	Del Norte High School	J. Cheskaty
219	1st CSEF	Nguyen Geering	Vivian Giselle	12 12	Identifying Novel Inhibitors of Cholera Toxin Subunit B	Bonita Vista High School	M. Mardahl

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Senior Division - Computational Biology and Bioinformatics (CBIO) cont'd							
220	1st CSEF	Madhukara	Nandana	10	Lipid Bilayer Bending Due to Membrane-Protein Interactions: A Computational Investigation	Canyon Crest Academy	E. Gerstin
221	2nd	Jeyaprakash	Arunraj	10	Artificial Intelligence Techniques for Automated Detection of Autism Spectrum Disorder Based on Mobile Camera Imaging	Canyon Crest Academy	A. Siegel
223	1st CSEF	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	1st CSEF	Ganji	Vidha Yadav	9	Machine-Learning Based Early Detection of Breast Cancer Using Blood-Based Biomarkers	Del Norte High School	N. Ganji
225	2nd	Arora	Aarav	11	Novel Laryngeal Cancer Diagnostic Approach Using MiRNA and Metabolite Biomarkers	Del Norte High School	A. Callicott
226	3rd	Irigireddy	Ritvik	11	Machine-Learning Based Rapid and Efficient Diagnosis of Tuberculosis	Canyon Crest Academy	E. Gerstin
227	2nd	Wang	Zhijing	11	System Biology Analysis of Rheumatoid Arthritis Samples for Personalized Treatment	Canyon Crest Academy	E. Gerstin
228	NS	Jung	Eleanor	12	Novel Method to Image-based Intracellular Force Estimation with Discrete Differential Geometry	Mt. Carmel High School	A. Klingborg
229	2nd	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	2nd	Zhang	Sydney	10	EyeScore, A Point of Care Smartphone App for Dry Eye Diagnosis & Prevention	Westview High School	M. Ingram
242	2nd	Lu	Frederick	11	Human Pose Estimation in Determining Karate Pose Accuracy	Canyon Crest Academy	A. Mauro
243	1st CSEF	Chang	Melinda	11	Albio.js: A Compiler-Powered Reactivity Library for Building Performant User Interfaces	Canyon Crest Academy	E. Gerstin
244	2nd	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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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
Senior Division - Computer Science and Systems Software (COMP) cont'd							
245	3rd	Kathiravan	Gautam	10	Machine Learning Model for Traffic Behavior Prediction in Intelligent Transport System	Canyon Crest Academy	D. Celniker
247	2nd	Mondal	Raunak	10	Development of Personalized Machine Learning and Data Augmentation Strategies to Diagnose Autism	Del Norte High School	J. Mortensen
249	1st CSEF	Xu	Shirley	12	Quantifying Size and Movement of Metal Organic Frameworks Using Computer Vision	The Bishop's School	M. Jaiclin
250	1st CSEF	Fan Qiao	Benjamin Edward	12 12	Deep Learning for Solving and Estimating Dynamic Macro-Finance Models	The Bishop's School	M. Jaiclin
251	2nd	Giometti	Collin	10	Exploring Interactive Genetic Algorithms with Music Composition	San Marcos High School	S. Shade
252	1st CSEF GA	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	1st CSEF	Xiao Shen	Tyler Emma	11	Grow & Give	Del Norte High School	J. Cheskaty
254	1st CSEF	Proshkin	Alexander	12	Investigating the Synergetic Integration of Multifaceted Abstractions with Constraint Programming for Enhanced Time Interval Optimization	Canyon Crest Academy	E. Fisher
255	2nd	Rao	Saanvi	10	Computer Vision Based iOS App for 2 Way Communication with ASL for the Hearing Impaired	Canyon Crest Academy	A. Siegel
256	2nd	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	1st CSEF	Dagar	Arnav	9	Where's Waldo Going - A Bayesian Approach for Localizing a Moving Robot	Canyon Crest Academy	A. Siegel
258	3rd	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	2nd	Qiu	Nathan	9	Metaverse Virtual Classroom for Enhanced Remote Engagement	Canyon Crest Academy	T. Mauro
260	NS	Lee	Woojin	11	Optimizing the Efficiency and Nutritional Distribution of Food Banks	Otay Ranch High School	C. Pearson
261	3rd	Li	Aaron	9	Sober Guardian	Francis Parker School	Y. Sun

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

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Senior Division - Earth and Environmental Sciences (EAEV) cont'd							
287	1st CSEF	Wise	David	11	Testing Low-Budget Water Purification Methods for Rural Areas using Physical Models	St. Augustine High School	J. Brophy
288	2nd	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	1st GA CSEF	Xu	Kate	10	Reducing Lead Contamination through Hydroponically-Grown Mycorrhizal Plants	Del Norte High School	B. West
290	1st GA CSEF	Gao	Sarah	10	Identification and Experimental Characterization of Plant Seeds as Effective Flocculants for Water Treatment	Canyon Crest Academy	E. Gerstin
291	2nd	Arias	Eduardo	11	The Effects of Petrol and Heavy Metals on Soil	Bonita Vista High School	J. Ekstein
292	2nd	Marcuson	Elena	10	Are Antibacterial Products Good?	Holtville High School	B. Sorenson
293	3rd	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	2nd	Robledo	Robert	12	How Has Ocean Acidification Affected the Beaches of Southern California?	Bonita Vista High School	J. Ekstein
295	1st CSEF	Tianshi	Kyle	11	Rapid Detection of Microplastics in Water: A Novel Light Scattering Method Using Fluorescence Emissions	The Cambridge School High School	M. Mayne

Senior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR)							
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331	1st CSEF	Kim	Angelina	10	Deep Reinforcement Learning of PID Control for Rotational Wing Aerial Vehicles	The Bishop's School	M. Jaiclin
332	3rd	Munshi	Ronit	10	Self Balancing Robot	Canyon Crest Academy	D. Munshi
333	1st GA CSEF	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	3rd	Patil	Yash	10	Drunk Driving Recognition	Sage Creek High School	S. Patil
335	2nd	Tatineni	Nitika	11	Energy-Saving HVAC System Using Ultrasonic Sensors and Machine Learning	Canyon Crest Academy	A. Mauro

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

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Senior Division - Physics and Astronomy (PHYS) cont'd							
394	2nd	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	1st CSEF	Nayak	Ayush	12	Quantum Dot based Quaternion High-Transport Transistor Technology	Westview High School	S. Halander
396	2nd	Dresios	Demetrios	10	Probing for Dark Stars and Drawing Conclusions on Dark Matter Using JWST	Carlsbad High School	A. Velentza
Senior Division - Plant Sciences (PLNT)							
401	3rd	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	3rd	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	1st CSEF	Magtoto	Cherise	11	The Effects of Ibuprofen on the Growth and Germination of Lactuca sativa.	Bonita Vista High School	J. Ekstein
404	2nd	Robitaille	Daniel	11	How Does Runoff Affect the Mass of Duckweed	Bonita Vista High School	J. Ekstein
405	2nd	Dabbah	Esther	11	Effects of Acid Rain on Growth and Health of Peas	Bonita Vista High School	J. Ekstein
406	3rd	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	1st CSEF	Nava	Diego	12	The Effect of San Diego River Water on Raphanus raphanistrum Seed Germination	Bonita Vista High School	M. Mardahl
409	3rd	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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JUNIOR DIVISION

Junior Division - Animal Sciences (ANIM)

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

Junior Division - Behavioral and Social Sciences (BEHA)

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

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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
Junior Division - Behavioral and Social Sciences (BEHA) cont'd							
546	2nd	Bartos	Cielo	8	Do Right-Handed or Left-Handed Teens	Stella Maris	S. Eckmann
		Sisitki	Sofia	8	Adapt Faster to Switching Dominant Hands?	Academy	
547	3rd	Kantorovich	Yosef	8	How Does Your Temperament Affect Your Team Working Ability?	San Diego Hebrew Day School	S. Jones
548	3rd	Kent	Giuliana	7	Fidgets Are Just Toys...Or Are They?	Nazareth School	M. Reed
Junior Division - Biochemistry (BCHM)							
583	1st CSEF TFSJIC	Bantval	Maya	6	Detection and Comparison of Vitamin C Enriched Beverages	Sage Canyon Elementary School	K. Arthur
584	3rd	Trujillo	Ashlyn	8	Holy Water Take 2	St. Peter the Apostle Catholic	E. Czarnowski
585	1st CSEF	Qarar	Yusra	7	Will Soaking Food in Water Before Cooking Remove Starch from It?	Bright Horizon Academy 6-8	N. Naserelddin
586	2nd	Zwierzynowski	Katrina	8	Effect of Time and Ripeness on Vitamin C Levels on Fruits	City Tree Christian School 6-8	M. Lee
Junior Division - Biomedical/Health Sciences and Bioengineering (BMDE)							
601	3rd	Parthiban	Sidhaarth	7	Effects of Various Concentrations of Nicotine on Monocyte	The Cambridge School High School	M. Mayne
602	1st GA CSEF TFSJIC	Chen	Steven	7	Magnetically-Powered Micro Train	Pacific Trails Middle School	A. Milholland
603	2nd	Roy	Phoebe	7	What UPF Fabric is the Best at Repelling UV Radiation?	Nazareth School	M. Reed
604	1st GARU2 CSEF TFSJIC	Bantval	Dhruv	8	Smart Glove with ASL-to-Speech Conversion to Assist the Hearing Impaired	Pacific Trails Middle School	E. Main
605	3rd	Siddiqui	Aminah	7	Vitamins Against Free Radicals	Bright Horizon Academy 6-8	N. Naserelddin
606	2nd	Rull	Andreas	8	Too Hot for Sopt	St. John School - Encinitas, CA	G. Heins
607	1st CSEF	Jaimovich	Adam	7	Efficacy of Various Spice Extracts in	The Rhoades School	R. Hunker
		Sayed	Zakari	7	Combating Potential Stimulant Hazards		
609	1st CSEF	Aly	Omar	7	The Effect of Weight Training for Throwing a Football	Bright Horizon Academy 6-8	N. Naserelddin
611	1st	Cantorna	Eva	7	Do People with Different Eye Visions Have Different Blind Spots?	Nazareth School	M. Reed
612	3rd	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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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
Junior Division - Cellular and Molecular Biology (CELL)						
633	2nd	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
Junior Division - Chemistry (CHEM)						
641	2nd	Escotet	Santiago	8	Does Flour Affect the Height of a Cookie?	All Hallows Academy A. Branson
642	1st GARU2 CSEF TFSJIC	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	3rd	Corona	Gianluca	8	Scoville Heat Units	All Hallows Academy A. Branson
644	3rd	Spooner	Casey	7	Testing Water from Different Zip Codes	St. Gregory the Great Catholic School S. Dasgupta
645	2nd	Venverloh	Nora	8	The Effects of Different pH Level Waters In Rotting Food	The Children's School D. Quincannon
646	2nd	Huebscher	Rebekah	6	Dyeing Natural and Synthetic Fabrics	Heritage Christian School E. Huebscher
647	1st	Lindsey	Ashlie	8	The Effect of Water Temperature on Ammonium Nitrate Activation	City Tree Christian School 6-8 M. Lee
Junior Division - Computer Science and Systems Software (COMP)						
681	3rd	Pathria	Sachin	8	Creating a Model to Forecast Change in Prescription Drug Prices	The Children's School D. Quincannon
682	3rd	du Preez	Benjamin	7	How Does Mass Affect an Active Ragdoll?	St. Gregory the Great Catholic School S. Dasgupta
683	2nd	Ko	Lyla	7	The Effects of Light and Distance on Face ID	St. Gregory the Great Catholic School S. Dasgupta
684	1st CSEF TFSJIC	Diep	Emily	7	Virtual Piano Teacher - Personalized Piano Lessons	Connect Academy Poway Unified J. Teixeira
685	3rd	Adamson	Parker	8	Can an Arduino Control a Lamp?	All Hallows Academy A. Branson
686	1st GA CSEF TFSJIC	Xu	Kayley	8	Respiratory Sound Classification Using AI	The Bishop's School J. Jordan

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

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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
Junior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR) cont'd							
732	2nd	Powers	McCoy	7	Designing and Building a Vending Machine for Chickens	Coastal Academy	B. Biernacki
733	3rd	Austin	Reed	7	The Pulley Wheel	St. John School - Encinitas, CA	G. Heins
734	3rd	Denning	Will	8	Which is a Safer Option, a Phone or a Computer?	All Hallows Academy	A. Branson
735	1st	Richardson	Ryan	7	Conserving Water Using an Automatic Faucet	St. John School - Encinitas, CA	G. Heins
736	2nd	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	1st CSEF	Ouchmame	Zackaria	7	Smart Medicine Cabinet	Bright Horizon Academy 6-8	N. Naserelddin
739	2nd	Conway	Sophia	7	Electromagnetic Efficiency	Mt. Helix Academy	K. MacDonald
740	3rd	Hamel	Leo	8	How Does Weight Affect a Drone	Mt. Helix Academy	K. MacDonald

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

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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
Junior Division - Engineering: Energy, Materials, and Transport (EEMT) cont'd						
759	2nd	Poch Schelper	Maia Leilani	7 7	Portable Desalination	The Children's School D. Quincannon
760	2nd	Sparks Solomon	Carter Gabe	7 7	Fishing Line Strength Test	St. Gregory the Great Catholic Sc S. Dasgupta
761	3rd	Rhodes	Kevin	8	How Color Affects Heat Absorption	De Portola MS M. Bridges
762	2nd	Poulin	Madeline	7	Does the Design of a Bridge Affect How Much Weight It Can Hold?	Nazareth School M. Reed
763	2nd	Zubaidi	Ahmad	7	A Solution to Earthquake-Proof Affordable and Sustainable Housing in San Diego	Bright Horizon Academy 6-8 N. Naserelddin
764	1st GARU1 CSEF TFSJIC	Zeller	Keanu	7	Tilt Angle Effects on Eddy Current Impacts	The Rhoades School R. Hunker
765	3rd	Powers	John	7	Investigating Optimal Weight Distribution for Stability of a Homemade ROV	The Rhoades School R. Hunker
767	2nd	Adler	Ben	8	What Is the Best Spray for Your Football Gloves?	San Diego Hebrew Day School S. Jones
768	1st	Anthony	Adam	8	Testing and Comparing the Strengths of Homemade Bioplastics	De Portola Middle School M. Bridges
769	3rd	Ladisa	Michael	7	Which Types of Water Bottles (Plastic, Metal or Insulated) Maintain Water at a Lower Temperature?	Nazareth School M. Reed
770	1st CSEF	Allende	Carmina	7	How Do Different Surfaces of Tennis Courts Affect the Way a Ball Bounces	Nazareth School M. Reed
771	1st CSEF TFSJIC	Parthasarathy	Jeyanth Narayan	7	Effects of Reverse Vertical Stabilizers on Aeroplanes	Pacific Trails Middle School A. Milholland
Junior Division - Microbiology (MCRO)						
801	1st	Trinh	Reagan	7	Effects of Natural Preservatives on Fruit	St. Gregory the Great Catholic Sc S. Dasgupta
802	3rd	Wilson	Mia	7	Kitchen Hygiene	All Hallows Academy A. Branson
803	1st CSEF TFSJIC	Leem	Ethan	8	Most Effective Natural Anti-Bacterial Agent	Pacific Trails Middle School E. Main
804	2nd	Donboli	Stella	7	The Effect of Household Cleaners on Bacteria	St. Gregory the Great Catholic Sc S. Dasgupta
805	NS	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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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor	
Junior Division - Microbiology (MCRO) cont'd							
806	1st CSEF	Capetanakis	Victoria	7	Which Harbors More Bacteria: a Phone or a Toilet?	St. John School - Encinitas, CA	G. Heins
808	2nd	Alcaraz	Gianna	8	Germs Against Liquid Hand Soap	Chula Vista Middle School	T. Tom
809	1st CSEF TFSJIC	Capaldi	Charlotte	7	Investigating the Effectiveness of a UVC Wand on Bacteria Mortality	The Rhoades School	R. Hunker
810	3rd	Miranda	Biancka	8	Germs in Gyms	Chula Vista Middle School	T. Tom
811	1st	Paband	Khadija	7	How Well Does Expired Hand Sanitizer Work?	Bright Horizon Academy 6-8	N. Nasereldin
812	3rd	Eiseman	Maxwell	8	LEDs Effect on Bacteria	San Diego Hebrew Day School	S. Jones
813	2nd	Horowitz	Avinadav	8	The Effect of Salt, Tap, and Carbonated Water on Bacteria Growth	San Diego Hebrew Day School	S. Jones
814	2nd	Lugasi	Eliyahu	8	Artificial Vs Natural UV Light	San Diego Hebrew Day School	S. Jones
815	3rd	Nakach	Jayden	8	Does a Different Environment Affect Bacteria Growth?	San Diego Hebrew Day School	S. Jones

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

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Proj ID	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
Junior Division - Physics and Astronomy (PHYS) cont'd						
830	1st CSEF	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	1st GA CSEF TFSJIC	Owen	Brooklynn	7	Putts to Perfection: Comparing Repeatability of Heavy and Light Putters	Classical Conversations K. Owen
832	1st CSEF TFSJIC	Carreon	Marcello	8	Does the Amount of Wire on a Guitar Pickup Affect Sound	All Hallows Academy A. Branson
834	2nd	Hettena	Evan	7	What's the Fastest Way to Cool a Soda	Mt. Helix Academy K. MacDonald
835	1st CSEF TFSJIC	Arnaudy	Elodie	7	Flipping Fast: The Effect of Body Shape on Flip Speed	City Tree Christian School 6-8 M. Lee
836	1st CSEF	Marsh	Olivia	8	Moon and Star Light	Eastlake Middle School A. Thacker
Junior Division - Plant Sciences (PLNT)						
851	3rd	Ally	Remy	7	A Sweet Approach to Fun Flowers	St. Michael's School - Poway W. Wolters
852	2nd	Leonhardt	Jake	8	Can Lawn Watering Be Cut In Half?	All Hallows Academy A. Branson
853	2nd	Muir	Madison	8	Compost Vs. Soil, Which Boosts Plant Growth?	The Children's School D. Quincannon
854	1st CSEF TFSJIC	Ffrench	Ellarose	7	Effect of Reclaimed, RO, and Well Water on Radishes	St. Gregory the Great Catholic School S. Dasgupta
855	2nd	Andersen	Noah	8	Effects of Reduced Water on Growth of St. Augustine, Sea Thrift and Fescue	De Portola Middle School M. Bridges
856	3rd	Flores	Sebastian	8	Which Liquids Will Keep a Pear from Oxidizing for the Longest Period?	Mt. Helix Academy K. MacDonald
857	3rd	Zettle	Emily	8	Will Vegetables Grow Better with Artificial versus Natural Light?	St. John School - Encinitas, CA G. Heins
858	3rd	Garrity	Ruth Simon	7 7	The Power of Fruit	The Children's School D. Quincannon
860	1st	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	1st	Capetanakis	Yianna	8	What is the Ideal Amount of Water to Grow Romaine Lettuce Plants?	St. John School - Encinitas, CA G. Heins
863	1st GARU1 CSEF TFSJIC	Sternson	Samuel	7	Production of Natural UV-absorbing Sunscreens in Plant Leaves	The Rhoades School R. Hunker

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Proj ID	Award	Last Name	First Name	Gr	Project Title	School	Tchr/Advisor
Junior Division - Plant Sciences (PLNT) cont'd							
864	2nd	Arnold	Wyatt	8	Do Different Plants Affect the Pesticide Level in Pesticide Runoff?	Mt. Helix Academy	K. MacDonald
865	1st	Sung	Ihan	8	Is Growing Succulents in Water Faster than Growing Them in Soil?	Eastlake Middle School	A. Thacker
866	3rd	Armstrong	Maya	8	Capillary Action of Water in Plants	Mt. Helix Academy	K. MacDonald
867	1st	Birch	Charlotte	8	The Effect of pH on Growing Cress in Lunar Soil Simulant	City Tree Christian School 6-8	M. Lee
868	2nd	Hall	Kennedy	8	What Kind of Flower Food is Best to Keep a Bouquet Fresh?	Mt. Helix Academy	K. MacDonald
869	2nd	Larsen	Tymbur	6	The Effects of Water Types on Chia Seed Growth	City Tree Christian School 6-8	M. Lee
870	1st	Villarroel	Emerson	7	The Effect of Paper Bags on Plums Ripening Process	City Tree Christian School 6-8	M. Lee
871	3rd	Bruno Onstott	Liz Katherine	8 8	L.L.T.B.P (LED Light Test on Bonnie Succulent Plants)	Stella Maris Academy	S. Eckmann

Junior Division - Product Testing (PROD)							
891	1st CSEF	Zwahlen	Maddie	7	Comparing Extracted	St. Gregory the Great Catholic School	S. Dasgupta
892	2nd	Maldonado	Sebastian	8	What is the Optimal Skate Wax for Street Skating?	All Hallows Academy	A. Branson
893	2nd	Schroeder	Jorge	8	Which Insulated Water Bottle Can Keep Cold Water the Longest?	All Hallows Academy	A. Branson
894	3rd	Chang	Iason	8	Which Pen Lasts the Longest?	Mt. Helix Academy	K. Macdonald
895	2nd	Amon	Pablo	7	Which Scooter Bearing Cream Allows for the Longest Spin?	All Hallows Academy	A. Branson
896	1st	Benjalil	Lillianna	8	The Effect of Cleaning Products and their Efficiency in Eliminating Smoke Damage	Mt. Helix Academy	K. MacDonald
897	2nd	Gallego	Demetrio	8	Which is the Thickest Pasta Sauce	All Hallows Academy	A. Branson
898	2nd	Moreno	Antonio	8	Soda's Impact on Staining Teeth	St. Peter the Apostle Catholic School	E. Czarnowski
899	1st	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	
Junior Division - Product Testing (PROD) cont'd							
900	2nd	Ezquivel	Layla	8	What Brand of Soil Absorbs the Most Water	Chula Vista Middle School	T. Tom
902	1st	Mizan	Almog	8	Detergents Vs. Stains	San Diego Hebrew Day School	S. Jones
903	3rd	Kennedy	Madelyn	7	Leaving the Least Dog Hair: Microfiber, Vinegar, Packing Tape, & a Lint Roller	St. Michael's School - Poway	W. Wolters
904	1st	Lau	Alexis	8	The Mouthwash Brand that is Best at Getting Rid of Bacteria	Mt. Helix Academy	K. MacDonald
905	2nd	Leal	Lorenzo	8	What Lotion Moisturizes the Best	Mt. Helix Academy	K. MacDonald
906	2nd	Nguyen	Apollo	7	Which Plastic is Strongest Against Weight Dropping, High Heat, and Bending? ABS, PLA, or PETG?	Nazareth School	M. Reed
907	3rd	Shores	Adriano	7	Which Type of NFL Mouthguards Are the Best?	Nazareth School	M. Reed

