

Qualcom



Prj ID Award Last Name	First Name	Gr	Project Title	School	Teacher/Advisor

SENIOR DIVISION

				Ser	nior Division - Animal Sciences (ANIM)		
101	2nd	Mandyam	Tanya	11	Curcumin Alleviates Inflammatory Responses in an Animal Model of Systemic Inflammation	Westview High School	L. Cox
102	3rd	Pitt	Lily	11	The Effects of Loratadine on <i>Dugesia</i> Japonica	Steele Canyon High School	J. Allen
103	1st	Tachibana	Emi	11	Nicotine-Induced Neurotoxicity in Planarian Models: Neuronal Regeneration and Behavior	University City High School	M. Quessenberry
104	1st	Wyatt	Ronald	11	Polystyrene-Based Superworm Frass and Its Theoretical Impact on Plant Nutrition	Eastlake High School	A. Williams
105	1st	Zeng	Sophie	11	From Paws to People: A Statistical Assessment of the Impact of Demographic Factors on Health Outcomes in Companion Dogs	The Bishop's School	M. Jaiclin
106	2nd	DeMott	Luke	11	Analysis of <i>E. Fetida</i> Productivity when Provided with Varying Compost-Based Food Sources	La Jolla High School	H. Eaton
			Senio	r Div	ision - Behavioral and Social Sciences (BEHA)	
111	3rd	Arce	Larisa	11	The Utilization of Morals on California High School Students: Connection Between Students Morality and School Academy Performance & Extracurricular Activities	Mater Dei Catholic High School	R. Pryce
112	1st	Ajanovic	Ауа	10	Memory Reconstruction	Bright Horizon Academy 9-12	N. Naserelddin
113	1st	Bhalla Im	Nupur Hannah	11 11	The Relationship Between Emotional Intelligence and Academic Burnout in Adolescents	Del Norte High School	J. Cheskaty & J. Cheskaty
114	2nd	Diep	Emily	9	Automatic Visual-Acoustic Feedback of Speech Articulation for Children with Speech Sound Disorders	Westview High School	D. Loo
115	2nd	D'Souza	Aaron	9	Categorizing Cyber-Attacks: Analysis of Industry, Event-Type, Economic and Criminological Factors	The Cambridge School	M. Mayne
116	2nd	Estrada Romero	Adam Dalilah	10 10	The Effect of Social Media On Teenager's Stress Levels	Central Union High School	L. Rueda

L. Rueda

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Senior Div	visio	n - Behavioral and Social Sciences (BEH	A) cont'd	
119	2nd	Khushu	Ronit	11	Using AI Based Emotion Recognition to Improve Quality of Life for People with Alexithymia and Autism Disorder	Francis Parker School	J.P. Pierce
120	1st	Lee	Kate	11	Interaction Between ApoE-genotype & Lifestyle Factors with Cognition in a Latino Cohort	Canyon Crest Academy	K. Sevilla
121	NS	Ouchmame	Zackaria	9	The Effects of Social Pressure on Ethical Decision Making	Bright Horizon Academy 9-12	N. Naserelddin
122	1st	Vadi	Ashwin	9	Knowledge, Attitude, Behavior and Practice Towards Microplastic Hazards among Community Dwelling Individuals in the Greater San Diego District	Del Norte High School	A. Callicott
123	3rd	Valle	Emiley	11	Implementing Subway Surfers in Slideshow Presentations: Effect on High School Students' Retention	Mater Dei Catholic High School	R. Pryce
124	2nd	Zaragoza	Clay	10	Unconscious Racism in Imperial Valley	Central Union High School	L. Rueda

	Senior Division - Biochemistry (BCHM)											
131	2nd	Bollu Lagisetti	Harshith Samhita	10 11	Optimizing Procedures to Enhance Sesamin Content in Sesame Seeds	Del Norte High School	C. Lagisetti					
132	1st	Chalamalasetty Li	Abhiram Anze	11 11	GIN Based Predictions of Potential Inhibitors Targeting Mycobacterium-Tuberculosis InhA Essential for XDR-Strains	Canyon Crest Academy	E. Gerstin					

		Senior D	Division - Bio	ome	dical/Health Sciences, and Biomedical	Engineering (BMED)	
141	2nd	Abdulaziz	Omar	9	Smart Dehydration Monitoring Using Wearables: A Real-Time Sensor Fusion App	Scripps Ranch High School	A. Abdurrab
142	3rd	Abhyankar	Sara	11	Migraine Bot	Scripps Ranch High School	P. Fowler
143	2nd	Arulselvan	Adhiban	9	NeuroStimulate: Home-Based Neuropathy Real-Time Assessment with Vibration, Heat, and Machine Learning Model	Scripps Ranch High School	P. Fowler
144	1st	Dogra	Saanvi	11	Uncovering Molecular Mechanisms for Treatment of Congenital Heart Defects through High-Content Genetic Perturbation Screens	Del Norte High School	A. Callicott
145	1st	Ganji	Vidha Yadav	11	Novel siRNA Inhibitors for Immediate-Early BZLF1 Protein for Epstein-Barr Virus	Del Norte High School	N. Ganji
146	3rd	Grapilon	Madeline	10	Development of a 3D Printed Gel Electrophoresis Chamber	Eastlake High School	A. Williams

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Senior Divis	ion - Biome	dica	I/Health Sciences, and Biomedical Engi	neering (BMED) cor	it'd
147	3rd	Hirman	Leah	11	Testing the Effectiveness of Different Kinds of FDA Approved Sunscreens on an Acetate Film Using a UVA/UVB Light Bulb	Granite Hills High School	D. Hirt
148	2nd	Hyun	Jihoo	10	Impact of Hydration, Temperature, and Age on Skin Capacitance and Capacitive Touch Screen Responsiveness	Canyon Crest Academy	K. Sevilla
149	2nd	Javier	Andrea	11	The Effect of Bath Ionic Strength on 4-point Bending Properties of Articular Cartilage	La Jolla Country Day School	R. Sah
150	1st	Jian	Jolina	9	Using Piezo Transducers to Break Uric Acid Crystals in Gout	Canyon Crest Academy	M. Zerwekh
151	1st	Kalyanaraman	Anirudh	12	Adverse Cardiovascular Effects of Burn Pit Exposure: The Role of Oxidative Stress	Mt. Carmel High School	H. Kalyanaraman
152	3rd	Kan	Lauren	11	Targeting FEN1 for the Treatment of Ewing Sarcoma Family of Tumors	Canyon Crest Academy	M. Liu
153	1st	Kapoor	Sanya	11	Contribution of LMNB2 Overexpression in Brain Cancer (GBM and LGG) Progression	Del Norte High School	S. Kapoor
154	2nd	Khushu	Riya	11	Novel Breast Cancer Treatment: Using Gene Expression and Differential Gene Analysis for Personalized Drug Therapy	Francis Parker School	JP. Pierce
155	3rd	Kim	Seohyun	11	Smart Massage Chairs with Distributed Microsensor Systems for Personalized and Chronic Physiological Recording	Canyon Crest Academy	K. Shakeri
156	2nd	Liang	Donny	9	Aqueous Humor Protein Biomarkers for Predicting Uveal Melanoma Metastasis Risk	Rancho Bernardo High School	R. Outlaw
157	1st	Lim	Ricky	11	Development and Evaluation of Nanoantibody-based Disease Diagnostics	Canyon Crest Academy	E. Gerstin
158	1st	Zeng	Lilian	11	Identifying Bacteriophages, Nature's Own Secret Weapon Against Antibiotic Resistant Bacteria, for Achromobacter	Del Norte High School	H. Xu
159	2nd	Zhao	Matthew	11	The Contribution of Sleep Promoting Genes to Brain Volume in Drosophila	Canyon Crest Academy	K. Hare

	Senior Division - Cellular and Molecular Biology (CELL)									
171	2nd	Le Nguyen	Maithy William	12 12	Synaptogenesis of Transplanted Inhibitory Neurons in the Adult Primary Visual Cortex	Westview High School	S. Halander			
172	2nd	Leem	Ethan	10	Paraquat Exposure Induces Microglial Dysfunction Leading to the Loss of Neuronal Neurites	Canyon Crest Academy	K. Shakeri			
173	2nd	Lim	Claire	10	Mitochondrial and Cellular Mechanisms Underlying Neuronal Degeneration in Parkinson's Disease	Canyon Crest Academy	K. Sevilla			

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Senior Div	visio	n - Cellular and Molecular Biology (CEL	L) cont'd	
174	1st	Yao	Minghui	11	Illuminating Driving Mechanism of Beneficial Host-Microbe Model: Opsin in Squid-Vibrio Symbiosis	The Bishop's School	L. Keller
				S	Senior Division - Chemistry (CHEM)		
181	1st	Capaldi	Charlotte	9	Comparing Cleavage Rates of Modified Nucleosides from a Universal Solid Support	Canyon Crest Academy	E. Gerstin
182	1st	Huang	Lucy	11	Morphological Changes and Kinetic Insights of Copper(I) Oxide Nanocrystals	Torrey Pines High School	E. Aghassi
183	1st	Park Suh	Gurnho Daniel	10 11	Assessing the Separations of a Biodegradable Surfactant Using TLC and Image Processing	Canyon Crest Academy Altus Schools	Н. Үоо

			Senior Divis	ion ·	- Computational Biology and Bioinforn	natics (CBIO)	
191	1st	Aravind	Medha	10	NeuroRepurpose: An In Silico Approach to Repurposing Drugs for Multiple Sclerosis Treatment	Del Norte High School	M. Nathan
192	2nd	Balam	Riti	11	Using Machine Learning Algorithms to Predict the Molecular Risk Score in GIST Tumors	Francis Parker School	M. Antkowiak
193	3rd	Bantval	Dhruv	10	Genetic Features as Predictors of Glioblastoma Treatment Effectiveness	Canyon Crest Academy	K. Hare
194	1st	Bapat	Mihir	10	Multimodal Deep Learning Approach for Brain Tumor Segmentation and Prognostic Prediction	Del Norte High School	A. Callicott
195	2nd	Bhatt	Prakruti	11	Quantum Annealing and Deep Learning- Driven Plasma Optimization for Refolding Misfolded Proteins in Neurodegeneration	Del Norte High School	D. Vyas
196	2nd	Bojja Maturi	Rohan Nikhil	10 10	Computational Investigation of hIAPP Oligomer Extracellular Cytotoxicity Mechanisms: Novel Therapeutic Prevention of β-cell Dysfunction	Del Norte High School	J. Maturi
197	2nd	Cai	Ethan	11	Metabolomics-Based Machine Learning Diagnostics of Post-Acute Sequelae of SARS- CoV-2 Infection	Canyon Crest Academy	K. Hare
198	1st	Chen	Hayden	11	EnsemBioDesc: Establishment and Optimization of Molecular Descriptor AI Ensembles for Novel MAPKAPK2 Inhibitor Identification	Del Norte High School	F. Liao
199	1st	Ganji	Vibha Yadav	11	Novel Screening Mechanism for Aggregation Breakers of Alzheimer's Disease Aβ Protofibrils	Del Norte High School	N. Ganji

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		9	Senior Division	- Coi	mputational Biology and Bioinformatic	s (CBIO) cont'd	
200	1st	Gao	William	11	Code2Cure: A Novel Pipeline for Multiobjective Cardiovascular Drug Design Using Generative AI, Graph Neural Networks, and Molecular Dynamics	Canyon Crest Academy	H. Lee
201	1st	Goel	Khushee	11	An EEG-Based Approach for Measuring IAD Risk Due to Social Media Overuse	Scripps Ranch High School	P. Fowler
202	1st	Guha	Risha	10	Characterizing Calcium Propagation in Parkinson's Disease Astrocytes through Computer Simulations	Del Norte High School	A. Callicott
203	1st	Hou	Henry	10	Segment-Any-Cell: Supercharging Generalized Cell Segmentation with Diffusion Synthesized Data	The Bishop's School	D. Cameron
204	2nd	Huang Huang	Bo-En Bo-Zhi	12 10	CCCDRP: Enhancing Multi-Omics Cancer Drug Response Prediction with Criss-Cross Attention	Westview High School	S. Halander
205	2nd	Li Wu	Albert Jacob	11 10	Automated Detection of Glioblastoma in Hyperspectral Imaging through Deep Learning	Westview High School Del Norte High School	C. Sun
206	3rd	Liang	Cindy	11	Comparison of Gut Microbiota in Healthy and Alzheimer's Patients	Del Norte High School	I. Tsigelny
207	1st	Liu	Kaelyn	11	A Multi-Scale Digital Twin Model for Liver Aging	Canyon Crest Academy	K. Sevilla
208	3rd	Macha	Manasvi	9	A Machine Learning Solution to COPD Exacerbation Prediction	Del Norte High School	L. N. Macha
209	1st	Madhukara	Nandana	12	A Novel Approach to Modeling the Effect of Protein Crowding on Cellular Membrane Shape	Canyon Crest Academy	E. Gerstin
210	2nd	Meng	Leo	10	Prototype and Model of a Biological Tri-state Memory Switch in Mammalian Cells	Westview High School	D. MacMartin
211	2nd	Menon	Varun	10	Image-Based Machine Learning for Alzheimer's Detection	Canyon Crest Academy	K. Shakeri
212	3rd	Nguyen	Tri	11	Predicting Solubility of Drug Molecules Using Machine Learning Models	Canyon Crest Academy	E. Gerstin
213	1st	Oguz	Tarik	11	Small Changes, Big Impact- miRNAs in Lung Cancer Detection	Del Norte High School	J. Cheskaty
214	2nd	Pallapotu	Eshika	11	A Novel Classification Model for Alzheimer's Disease Pathogenicity Using Ligand-Receptor Variants and RNA-seq Data	Del Norte High School	R. Pallapotu
215	3rd	Parthiban	Sidhaarth	9	Computational Strategies to Examine Cellular Stress-related Gene Patterns in Nicotine Treated Monocytes	Westview High School	S. Halandar

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Senior Division	- Co	mputational Biology and Bioinformatio	cs (CBIO) cont'd	
216	NS	Shah	Kush	10	Unraveling ALS: A Computational Approach to Gene Expression and Pathway Analysis	Del Norte High School	K. Shah
217	1st	Shah	Nisarg	11	Accelerating Drug Discovery with a Fragment- Based Machine Learning	Del Norte High School	J. Shah
218	1st	Shi	Ryan	11	Microglial CMPK2 Inhibition as a Novel Therapeutic Strategy for Major Depressive Disorder	The Bishop's School	D. Cameron
219	2nd	Srinivasan	Nikhil	9	Developing Quantitative/Computational Models for Optimizing Dosing Regimen of "Targeted Protein Degrader" Drugs and Improving Patient Survival in Breast Cancer	Canyon Crest Academy	M. Zerwekh
220	2nd	Тао	Christopher	11	Deep Learning Model for Classification of Brain Tumors	The Bishop's School	M. Jaiclin
221	2nd	Thomas	Nisa	9	Modeling Risk Factors for Poor Health in California Counties Utilizing the 2023 County Health Rankings Database	Del Norte High School	J. Shaia
222	2nd	Tian	Christina	11	Design Monoclonal Antibody Drugs for Cancer Therapy Using Molecular Simulations	Westview High School	D. MacMartin
223	2nd	Tipirneni	Aanika	11	Advancing Epilepsy Detection through MicroRNA Biomarkers: A Machine Learning Solution	Canyon Crest Academy	E. Gerstin
224	1st	Uhegbu Yu	Kellen Ethan	11 10	Utilizing CNN Modeling to Detect Early and Flared Up Eczema	Del Norte High School	C. Uhegbu
225	1st	Vivek	Nithika	11	Deep Learning Based Optimization of Immunoblotting Reaction Conditions	Del Norte High School	M. Sharma
226	3rd	Wang	Ryan	10	Using AI for Pericyte Research	Westview High School	S. Halander
227	3rd	Weng	Elizabeth	10	The Significance of Tumor Necrosis Factor in Atherosclerosis	Westview High School	D. MacMartin
228	2nd	Yadav	Anvay	11	Enhancing Colorectal Cancer Diagnostics through Generative Deep Learning for Multiple Modalities	Del Norte High School	M. Yadav
229	3rd	Yu	Linda	11	Structural Analysis of Virulence Factors Between S. aureus Strains MSSA476 and MRSA252	Canyon Crest Academy	E. Garling
			Senior Divis	ion ·	- Computer Science and Systems Softw	are (COMP)	
230	1st	Hattar	Harkirat	11	Adaptive Cellular Computation: Redefining	Del Norte High School	K. Hattar

Decentralized AI

the Foundations of Machine Learning and

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Sen	ior Division	- Co	mputer Science and Systems Software	(COMP) cont'd	
241	2nd	Bai Tantisira	Ryan Brayden	11 11	Autonomous Multidrone Navigation and Tracking for Cinematic Aerial Filmmaking	Canyon Crest Academy	A. Dul
242	3rd	Bisain	Aditya	10	Kitchen Manager	Canyon Crest Academy	E. Gerstin
243	2nd	Chandra	Neil	10	D-SAFENet - DNS Security and Filtering Engine for Malicious DNS Detection and Classification	Del Norte High School	M. Varma
244	2nd	Chen Quan	Andrew Joseph	11 11	Better Plane Detection in 3D Reconstruction from 2D Images	Canyon Crest Academy	K. Hare
245	3rd	Chen Lai	Jennifer Isabel	11 11	Developing a Website to Assist with Dyscalculia Using Deep Learning Image Recognition	Canyon Crest Academy	K. Sevilla
246	2nd	Choksi	Advait	10	Evaluating Machine Learning Models for Classifying Lung Cancer Subtypes through CT Scans	Canyon Crest Academy	A. Dul
247	2nd	Dagar	Arnav	11	Mapping and Estimating Homelessness	Canyon Crest Academy	K. Hare
248	1st	Dhar	Naveen	11	Fighting Poaching through High Precision Real-Time Gunshot Detection Using Deep Learning and Cross-Unit Communication	High Tech High Mesa	E. Usaha
249	1st	Ekambaram Svetina	Nikhil Evan	9 9	Image Recognition Software to Detect Surgical Tools and Output Coordinates to Robot Arm	Del Norte High School	S. Soundarraju
250	2nd	Eltepu	Shiven	11	Securing Multi-Agent LLM Systems Via Detection and Mitigation of Poison Propagation	Scripps Ranch High School	P. Fowler
251	1st	Fan	Leanne	12	Building LLM Reasoning Models for Cheap: Salient Reasoning Traces for Cost-Efficient Test-Time Scaling	Westview High School	D. MacMartin
252	2nd	Hyun	Jeonghoo	11	Automated Coaching of Basketball Actions Using Keypoint-Aware Action Recognition and Video Processing	Torrey Pines High School	R. Robinette
253	2nd	Kintada	Sathwik	9	Leveraging Synthetic Data to Mitigate Racial Bias in Medical Skin Lesion Models	Del Norte High School	R. Kintada
254	2nd	Kowsari	Kian	11	Vending Machine Optimization	Scripps Ranch High School	P. Fowler
255	1st	Liang	Jaelyn	10	Spiking Neurons on a Chip - A Biologically- Inspired Neuromorphic-FPGA Architecture for Energy-Efficient AI Applications	Westview High School	D. MacMartin
256	1st	Marwah	Nalin	11	How to Improve Novice Cricketer's "Fast Bowling Action" Using Machine Learning Pose-estimation Model	Del Norte High School	V. Marwah

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Seni	or Division	- Coi	mputer Science and Systems Software	(COMP) cont'd	
257	1st	Rezaei	Ryan	11	Novel Material Discovery through Geometric Deep Learning and VAE Latent Space Diffusion	Canyon Crest Academy	D. Celniker
258	1st	Shin	Andrew	11	Harmonizing Human Attention and Deep Neural Networks: Gaze-Weighted Attention for Object Recognition	Canyon Crest Academy	E. Gerstin
259	1st	Wang	Yuekai	11	IFEP: A Low-Cost Large Language Model Personalization Framework for Mitigating Food Waste	Rancho Bernardo High School	M. Li
260	2nd	Xie	Eric	11	New Approach for Efficient Voice Recognition Using Delay Differential Analysis	Torrey Pines High School	B. Belyea
261	1st	Xing	Ella	11	An Immersion Campus Simulation Protection and Safety Improvement System Using Artificial Intelligence	The Bishop's School	M. Jaiclin
262	1st	Xu	Kayley	10	Wearable Stethoscope Array and Localization & Diagnosis of Cardiopulmonary Sounds	The Bishop's School	M. Jaiclin
263	2nd	Zubaidi	Ahmad	9	MindTrack: GPS for Dementia Patients	Bright Horizon Academy 9-12	N. Naserelddin
264	2nd	Badal	Rohan	12	Hallucination, Conflation and Ultracrepidarianism in Large Language Models	University City High School	V. Badal
265	2nd	Sanchez	Alfonso	9	Using AI to Predict Optimal Baseball Pitch Type Based on Temperature	Extraordinary Private Home School	A. Sanchez

			Senior I	Divisi	on - Earth and Environmental Sciences	s (EAEV)	
271	3rd	Cardoso DeWalt	Mia Aaliyah	11 11	Using Mycoremediation of <i>Hysizygus</i> tessulatus Fungus (Bunapi and Bunashimeji) and Agarius bisporus to Mitigate Oil Spills	Bonita Vista High School	J. Ekstein
272	1st	Chandra	Arthi	11	Plastic that Can Eat Itself? Improving Tensile Strength in Engineered Living Polymers	Canyon Crest Academy	A. Siegel
273	1st	Chen	Steven	9	Nature-Inspired Living Device to Degrade Organic Pollutants in Water	Canyon Crest Academy	T. Agase
274	3rd	Estrada	Thalia	11	The Effects of Different Amounts in Charcoal on Phosphate Filtration of the Chula Vista and Otay Lakes Reservoir	Bonita Vista High School	J. Ekstein
275	3rd	Farias	Mariana	11	The Effect of Paper, Plastic, and Glass Pollution on Duckweed	Bonita Vista High School	J. Ekstein
276	3rd	Luna Yufe	Eva Natasha	11 11	Examining the Impact of Invasive Compared to Native Species on Soil Health	Bonita Vista High School	J. Ekstein

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Senior Divis	sion	- Earth and Environmental Sciences (EA	AEV) cont'd	
277	3rd	Montiel	Nina	11	Correlation Between Carbon Monoxide Emissions and Life Expectancy in India	Bonita Vista High School	J. Ekstein
278	1st	Munoz	Esteban	11	Dust Suppression Using Biocementation on Exposed Salton Sea Lakebed	Central Union High School	L. Rueda
279	1st	Murphy Perry	Siffrin Janeiro	10 10	Optimal Ratio of Superworms in Polystyrene Biodegradation	Health Sciences High and Middle College	J. Bonine
280	3rd	Perez	Lisa	11	Effects of Copper, Chromium, and Iron on Imperial Beach vs. La Jolla	Bonita Vista High School	J. Ekstein
281	3rd	Rosal	Sophia	11	To What Extent Will Nicotine at Various Concentration Levels Impact <i>Phaseolus</i> <i>vulgaris</i> (Blue Lake Bush Bean) Growth and Germination?	Bonita Vista High School	J. Ekstein
282	2nd	Williams	Kaden	11	Tracking Carbon Footprint: Does Awareness Lead to Action?	Eastlake High School	A. Williams
283	2nd	Xia	Olina	11	Investigating Carbon Debt and Socio- Environmental Inequality in Transportation Using Al-GIS Modeling	Rancho Bernardo High School	B. Xia
284	1st	Zhang	Austin	11	Smart Park Management: A Drone-Based AI Solution for Vegetation Health and Wildfire Risk Mitigation	Del Norte High School	S. Li
285	1st	Zhu	Virginia	9	Design of a Low-Cost WiFi-Enabled PM2.5 Sensor Network Using IoT for Real-Time Air Quality Monitoring	Del Norte High School	Y. Yu

		Seni	or Division	- Eng	gineering: Electrical, Mechanical, and R	obotics (EEMR)	
291	3rd	Не	Daniel	9	Pinhole Optics Imager	Canyon Crest Academy	T. Agase
292	1st	Hong	David	11	Design and Construction of an Innovative Semi-Rigid Lower Limb Exoskeleton	The Bishop's School	M. Jaiclin
293	3rd	Mansour	Malik	10	Advanced Robot for Precision Water Leak Detection and Autonomous Repair	High Tech High Mesa	E. Usaha
294	2nd	Parthasarathy	Jeyanth Narayan	9	Advanced Terrain-Adaptive Suspension Framework: Leveraging Machine Learning for Optimized Vehicle Dynamics and Adaptive Response	Canyon Crest Academy	E. Gerstin
295	2nd	Sadek	Adham	11	Al Based Automated Search & Rescue Unmanned Aerial Vehicle	High Bluff Academy	A. Ashour
296	1st	Siddiqui	Aminah	9	Advancing Cost-Effective Space Exploration Using LESAR (Low Cost Extraterrestrial Surface Analysis Rover)	Bright Horizon Academy 9-12	N. Naserelddin

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Senior D	oivision - En	gine	ering: Electrical, Mechanical, and Robo	tics (EEMR) cont'd	
297	1st	Sung	Ihan	10	Universal Mass Scale	Eastlake High School	A. Williams
298	1st	Verma	Rahul	11	Optimization of Kinematics and Control of a Coaxial Swerve Omni Based Drive	Del Norte High School	R. Verma
299	2nd	Zheng	Chris	10	Optimizing the Performance of Machine Learning Algorithms for UAV-based Search- and-Rescue Systems	The Bishop's School	A. Pelletier

	Senior Division - Engineering: Energy, Materials, and Transport (EEMT)									
311	1st	Chandra	Anju	11	Immobilization of Cyanobacteria within Hydrogels Aiding in Purified Protein Drug Delivery	Canyon Crest Academy	K. Shakeri			
312	2nd	Delgado	Мауа	11	The Thermal Resistance of Environmentally Sustainable Insulation Materials vs. Unsustainable Polystyrene Insulation	Bonita Vista High School	J. Ekstein			
313	3rd	Mahendran	Pranav	9	Utilizing Piezoelectricity to Harness Ocean Waves for Power	Torrey Pines High School	B. Belyea			
314	1st	Ray Chaudhuri	Shounak	11	Novel Scalable Multiphase Autonomous Vehicle Systems for Emerging Markets	Francis Parker School	J.P. Pierce			

	Senior Division - Mathematics (MATH)									
321	1st	Qiu	Nathan	11	Reinforcement Learning Based Simulated Annealing	Canyon Crest Academy	K. Shakeri			
322	2nd	Ryu	Wonhee	11	Breaking Modern Cryptography by Quantum Computing	Canyon Crest Academy	K. Shakeri			
323	1st	Xuan	Kailin	11	Efficient Algorithm and Implementation for Boole Reduction of Large Logic Expressions	The Bishop's School	M. Jaiclin			

	Senior Division - Microbiology (MCRO)										
331	1st	Foss	Spencer	12	Sucralose Exposed Bacteria's Relationship to Future Increases in Antibiotic Resistance Genes	San Diego Jewish Academy 9-12	P. Hagarman				
332	1st	Не	David	11	An Integrated Analysis of Marine Polyurethane Microplastic Degradation with Genetically Engineered Bacterial Biofilms	Westview High School	S. Halander				
333	2nd	Lerman	Ava	9	Effectiveness of Ultrasonic Waves on Cyanobacteria for Algal Bloom Mitigation	San Diego Jewish Academy 9-12	P. Hagraman				

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			S	enio	r Division - Microbiology (MCRO) cont	:'d	
334	3rd	Reyes Wong	Matthew Emmanuel	10 10	The Effect of Acidity on the Growth of Bacteria (Non Pathogenic E. Coli.)	Central Union High School	L. Rueda
335	1st	Zhang	Amber	10	Designing an Ideal Pseudomonas aeruginosa Nanoparticle Vaccine Focusing on Core and Size	The Bishop's School	E. Bjanes

			Se	nior	Division - Physics and Astronomy (PH)	/S)	
341	3rd	Barrett Cervantes	Maryanne Alexa	10 10	Determining the Best Material to Create an Armor	Central Union High School	L. Rueda
342	2nd	Chen	Lucas	9	Evaluating Effective Waveform Analysis Methods for Minimizing Background Noise in Pulsar Navigation	Francis Parker School	J.P. Pierce
343	1st	Chen	Trevor	12	Perfecting Infrared Gratings for Polarized and Non-Polarized Applications	Westview High School	S. Halander
344	1st	Choubey	Shubhay	11	MicroNet: A Novel Deep Learning Framework For Exoplanet Classification In Microlensing Events	Del Norte High School	F. Liao
345	2nd	Nayak	Aneesh	9	Using N-Body Simulations and Augmented Kepler/TESS Data for a CNN- ML Driven TTV Detection System	Westview High School	S. Halander
346	1st	Sen	Ritam	9	Utilizing Deep Learning to Explore the Physics of Sprinting: A Novel Sprinting Analysis Framework	Francis Parker School	J.P. Pierce
347	1st	Smith	Joe	12	Lost in the Stars: Chemical Tagging of Magellanic Clouds and Accreted Populations	Stanford Online High School	V. Sandoval
348	1st	Sternson	Samuel	9	Optimization of Height and Angle of Repose of Lunar Berms	Canyon Crest Academy	A. Siegel
349	2nd	Xie	Joann	10	Predicting Atmospheric Spectra of Exoplanets Using Deep Learning Algorithms	Del Norte High School	J. Cheskaty

	Senior Division - Plant Sciences (PLNT)										
361	2nd	Acevedo Chaidez	lsabel Roberto	11 11	To What Extent Does Soil Erosion Effect Plant Growth?	Bonita Vista High School	J. Ekstein				
362	3rd	Bannister	Delilah	11	The Affect of Acid Rain pH Levels 3, 4, and 7 on the Growth and Germination of <i>Triticum aestivum</i>	Bonita Vista High School	J. Ekstein				
363	1st	Baruch	Hila	10	<i>Triticum aestivum</i> Seed Response to Electromagnetic and Magnetic Stimuli: A Comparative Investigation	Altus Schools	M. Ramirez				

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			S	enio	r Division - Plant Sciences (PLNT) cont	d	
364	2nd	Berke Hernandez-Ruiz	Jeremy Valeria	11 11	How Effective is Coral-Safe Sunscreen in Protecting Water Plants Like Water-Weed?	Bonita Vista High School	J. Ekstein
365	2nd	Dela Cruz	Charissa Myka	11	Investigating the Impact of Buried Plastic on Germination and Growth of <i>Raphanus</i> sativus	Bonita Vista High School	J. Ekstein
366	3rd	Luna	Diego	12	Organic Versus Synthetic Soil Affect on the Growth and Germination of Radishes (Raphanus sativus)	Bonita Vista High School	J. Ekstein
367	1st	Luo	Anna	11	Allelopathic Effects of <i>Cynara cardunculus</i> on Native Coastal Sage Scrub Species	Canyon Crest Academy	K. Shakeri
368	1st	Rodriguez	Nicholas	12	UV-B Radiations impact on Growth and Germination of <i>Triticum aestivum</i> - Cat Grass	Bonita Vista High School	J. Ekstein
369	3rd	Rojas	Areli	11	To What Extent Does the Toxicity of Chlorine Affect the <i>Raphanus sativus</i> ?	Bonita Vista High School	J. Ekstein
370	3rd	Roman	Andrea	11	The Effect of Microplastics on Elodea Plants	Bonita Vista High School	J. Ekstein
371	2nd	Saxena	Parth	11	A Novel AI-Driven Rainfall Monitoring System for Sustainable Irrigation in Developing Regions <i>(category changed to EEMR)</i>	Scripps Ranch High School	P. Fowler
372	1st	Tipirneni	Siri	9	From Plants to Ecosystems: Using Nitrogen- 15 to Detect Stress	Canyon Crest Academy	E. Gerstin
373	3rd	Vergara	Frida	11	Fluoride vs. Growth: Analyzing Pinto Bean Germination	Bonita Vista High School	J. Ekstein
374	1st	Zhang	Elvin	11	Automated Plant Disease Detection through Multi-sensory Analysis for Space Travel Application	Del Norte High School	J. Cheskaty

JUNIOR DIVISION

	Junior Division - Animal Sciences (ANIM)											
501	1st	Hollmann	Thrace	6	Do Young or Adult Guinea Pigs Learn Faster?	Muirlands Middle School	L. Trombley					
502	2nd	Rappoport	Joshua	8	Music's Impact on Dogs	San Diego Hebrew Day School	D. Pink					
503	3rd	Sanchez Sanchez	Eleanor Esther	7 8	Which Light Will Increase Your Height?	Extraordinary Private Home School	S. Sanchez					
504	3rd	Toor	Sareena	7	Effects of Chemicals Found in Perfumes upon Planarian Head/Tail Development	La Jolla Country Day School	M. Bessler					

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Junior	Div	ision - Behavioral and Social Sciences (BEHA)	
511	1st	Anello	Dominic	8	The Effects of Physical Activity on Test Scores	The Children's School	D. Quincannon
512	3rd	Carver Jacobson-Dill	Jacob Cruz	7 7	Can Humans Identify AI Generated Materials	Mt. Helix Academy	K. MacDonald
513	1st	Cooper	Aaron	8	Does Neurodivergence Affect the Way People See Ambiguous Illusions?	Community Montessori Charter School Carlsbad	I. Cooper
514	2nd	Essa	Reem	8	The Role of Learning Styles on Creative vs Analytical Problems	Bright Horizon Academy 6-8	N. Naserelddin
515	2nd	Ferry	Aaron	8	Does Sympathy Affect Generosity	San Diego Hebrew Day School	D. Pink
516	2nd	Hammad	Ida	8	The Impact of Peer Pressure on Decision- Making	Bright Horizon Academy 6-8	N. Naserelddin
517	3rd	Huguely	Raniyah	8	The Effect of Music on Test Performance	City Tree Christian School 6-8	C. Glick
518	3rd	Johnson	Jayden	7	The Effect of Age on Human Reaction Time	City Tree Christian School 6-8	C. Glick
519	1st	Karthik	Arjun	7	The Impact of Social Media on Teen Mental Health	Oak Valley Middle School	K. Latonio- Wilson
520	1st	Mughal	Zara	6	Role of Emotional State on Visual and Auditory Perception	Bright Horizon Academy 6-8	N. Naserelddin
521	2nd	Ouznali	Duaa	8	Are Bilinguals Cognitively Superior to Monolinguals?	Bright Horizon Academy 6-8	N. Naserelddin
522	2nd	Plasencia	Adrian	7	Can Al Trick Humans	Nazareth School	M. Reed
523	2nd	Ron	Ayelet	7	The Effect of Music on Arithmetic Abilities	The Bishop's School	K. Kleinertz
524	1st	Salem	Yusra	7	Exploring the Impact of Immersive Vs. Traditional Learning on Student Performance	Bright Horizon Academy 6-8	N. Naserelddin
525	1st	Sternson	Olympia	7	Generational Effects on Resilience from Gen Z to the Greatest Generation	The Rhoades School	R. Hunker

	Junior Division - Biochemistry (BCHM)										
541	3rd	Bustos	Sebastian	7	Preserving Fruit with Natural Preservatives	Mt. Helix Academy	K. MacDonald				
542	2nd	Hernandez	Meena	8	Different Sugars in Bread Rising	The Bishop's School	K. Kleinertz				
543	1st	Jasim	Reema	8	Will Juice Lose Its Vitamin C and How Can It Be Preserved?	Bright Horizon Academy 6-8	N. Naserelddin				

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Ju	inio	Division - Biochemistry (BCHM) cont	d	
544	1st	Pyla	Tanvi	8	Personalized Drug Design: Targeting H1 Receptor Mutations to Improve Allergy Treatment	Pacific Trails Middle School	E. Main
545	3rd	Silva	Alexia	8	Which Bread will Grow Mold the Fastest?	Chula Vista Middle School	T. Tom
546	2nd	Villalobos	Belen	7	La Dolce Vida: The Sweet Life of Bananas	St. Mary's School - El Centro	C. Lizarraga

		Junior D	ivision - Bio	med	lical/ Health Sciences, and Biomedical	Engineering (BMED)	
551	1st	Broudy	Golda	8	The Effects of Radiofrequency Radiation on the Development of Cancer	San Diego Hebrew Day School	D. Pink
552	2nd	Cubukcu	Emel	7	Back to Bach: Our Brain's Perception of Music	Muirlands Middle School	L. Trombley
553	3rd	Delgado	Flora	7	The Effect of Different Substances on Tooth Decay	City Tree Christian School 6-8	C. Glick
554	1st	Ehsan	Anabia	8	Reducing Pain and Anxiety During Medical Procedures in Children with Needle Phobia	Thurgood Marshall Middle School	F. Zaman
555	2nd	Gorzelanski	Nicholas	8	Under Pressure	De Portola Middle School	M. Bridges
556	2nd	Не	Lawrence	8	Engineering a Functionally Enhanced PD-1 Agonistic Antibody for Improved Autoimmune Disease Treatment	The Bishop's School	B. Barry
557	2nd	Kim Park	Hyunggyu JoonWoo	8 8	Reliable Gaze-Driven Medical Communication Boards Using Consistency Loss with Conjugate Gaze	Pacific Trails Middle School	M. Mareth
558	2nd	Mejia	Alitzia	7	Are You Drinking Plastic? Which Water Bottle Type Releases More BPA Under Heat: Thick or Thin Plastic?	Nazareth School	M. Reed
559	3rd	Noriega	Nicolas	6	What is the Best Way to Protect Your Skin from Ultra Violet Radiation?	St. Mary's School - El Centro	C. Lizarraga
560	1st	Saha	Karishma	8	Structural Brain Volume Differences Across Cognitive Aging Stages: Evidence from MRI	Bernardo Heights Middle School	C. Mukherjee
561	1st	Valkanov	Martin	7	Eco-Safe Marine Sunscreen: Development and Effectiveness Testing Against Conventional Products	San Diego French American School	A. Mobley
562	1st	Zhang	Amy	8	The Healthy Consumption of Popular Drinks for Teenagers	The Bishop's School	K. Kleinertz

	Junior Division - Cellular and Molecular Biology (CELL)									
571	2nd	Palombo Valenzuela	Giovanna Sophia	8 8	How Does Jellyfish Gene Affect Bacteria?	Eastlake Middle School	G. Carrillo			

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
-					Junior Division - Chemistry (CHEM)		
581	1st	Amin	llyas	8	Eco-Friendly Corrosion Inhibitors: The Effectiveness of Plant Extracts in Rust Prevention	Bright Horizon Academy 6-8	N. Naserelddin
582	2nd	Chua Jones	Oleisa Kenzie	8 8	How the Quality of Water In Poway Schools Compares to the State and Federal Water Quality Regulations	St. Michael's School - Poway	L. Ray
583	2nd	Cordes	Noah	7	Ice Ice Maybe	All Hallows Academy	M. Horvath
584	2nd	Croff	Nicholas	7	At Twelve Volts DC, What is the Most Effective Amperage to Etch Copper?	Nazareth School	M. Reed
585	NS	Dougherty	William	7	The Effect of Temperature on pH and Total Dissolved Solids (TDS) in Drinking Water	Mt. Helix Academy	K. MacDonald
586	2nd	Gonzales	Camille	7	Fabrics to Dye For: Which Fabrics Stand Out?	Nazareth School	M. Reed
587	1st	Jaiswal	Nityaa	7	Will the Amount of Time You Spend Mixing the Cake Batter Affect the Height of the Cake?	Oak Valley Middle School	P. Hewett
588	3rd	Jones	Ari'Yana	6	How Different Liquids Rust Metal OverTtime	City Tree Christian School 6-8	C. Glick
589	2nd	Mitchell	Ryan	7	The Coke Explosions	Mt. Helix Academy	K. MacDonald
590	NS	Nguyen Nguyen	Kason Katie	6 6	The Recipe for Making the Longest Fizzing Bath Bomb	Mt. Helix Academy	K. MacDonald
591	2nd	Niebres	Anthony Jaye	8	Does the Shape of Ice Affect How Long it Takes to Melt?	Chula Vista Middle School	T. Tom
592	1st	Oster	Oliver	8	The Effectiveness of Various Desiccants on Moisture Absorption	The Children's School	T. Brown
593	3rd	Parker	Sofia	6	Ratio of Cornstarch to Water and Its Effect on Oobleck	Mt. Helix Academy	K. MacDonald
			Junior Divisi	on -	Computational Biology and Bioinform	natics (CBIO)	
601	1st	Bojja Jian	lshan Howell	6 6	Congenital Nystagmus Diagnosis with Artificial Intelligence Eye Tracking	Oak Valley Middle School	N. Bojja
			Junior Divisi	ion -	• Computer Science and Systems Softw	vare (COMP)	
611	1st	Bantval	Мауа	8	Voice-Based Object Detection Device for the Visually Impaired	Pacific Trails Middle School	E. Main
612	1st	Bhatia	Rishabh	7	Applying Image Recognition Algorithms for Identification of Strongylocentrotus Purpuratus	The Rhoades School	R. Hunker

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Juni	or Division -	Сог	mputer Science and Systems Software	(COMP) cont'd	
613	2nd	Bhatt	Arya	6	AMT+: Exploration of Machine Learning Based Automatic Music Transcription Algorithms	Oak Valley Middle School	K. Bhatt
614	3rd	Cendana Puentes	Michael Carlos	8 8	Identifying Colors: A Solution for Colorblindness	Eastlake Middle School	J. Kasem
615	2nd	Hande	Samarth	8	Strategic Simulations of Warfare in a Multipolar World	Oak Valley Middle School	P. Hande
616	1st	Kathiravan Peiris	Yaalini Dylan	8 8	Ride Safe, Ride Smart: Ensuring E-bike Safety with Al-Based Helmet Monitoring	Pacific Trails Middle School	M. Abelmann
617	3rd	Matzen	Rigel	7	Can Prompts Improve ChatGPT Response Consistency?	The Rhoades School	R. Hunker
618	2nd	Mohammed	Yusuf	6	Predict Air Quality with Machine Learning	Bright Horizon Academy 6-8	N. Naserelddin

	Junior Division - Earth and Environmental Sciences (EAEV)										
631	3rd	Ві	Mia	8	Can Pond Water Purify Wastewater?	La Jolla Country Day School	M. Bessler				
632	1st	Blais Samady	Embry Ariana	8 8	Investigating the Effects of Rail Corridor Proximity on Microplastic Beach Pollution	The Rhoades School	R. Hunker				
633	1st	Combs	Valerie	7	The Detection of Microplastics in Drinking Water Using Machine Learning	The Bishop's School	K. Kleinertz				
634	1st	Feng Xu	Andy Henry	8 8	Mapping Invasive Species with a Drone and Machine Learning Algorithm in San Diego	Pacific Trails Middle School	A. Xu				
635	2nd	Hendrix	Elise	7	Quantifying the Effects of Interstate Emissions on Local Air Quality	The Rhoades School	R. Hunker				
636	3rd	Howton Packer	Dustin Daniel	7 7	The Effect of Different Moss Types on a Room's Temperature	The Children's School	T. Brown				
637	1st	Jia	Melody	8	Which Types of Straws Decompose the Quickest?	La Jolla Country Day School	M. Bessler				
638	1st	Kattamuri	Uma	6	Effect of Increased CO2 Levels on CAM Plant Kalanchoe pH and Stomatal Density	Oak Valley Middle School	S. Gorugantu				
639	1st	Kelsey	Skye	8	The Effect of Arthrospira Platensis on Plastic Degradation	The Children's School	T. Brown				
640	3rd	Lengel	Jake	7	Which Ground Cover Ice Plant Best Slows Erosion, Mesembryanthemum or Delspenma?	Nazareth School	M. Reed				
641	2nd	Merkey	Olivia	8	Absorbing Oil	Coastal Academy	B. Biernacki				

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Junior Divis	ion -	Earth and Environmental Sciences (EA	AEV) cont'd	
642	2nd	Norman	Cora	8	Is It Possible to Protect Coral Reefs from Sunscreen Using Tennis Balls?	Coastal Academy	B. Biernacki
643	1st	O'Donnell	Sydney	7	Surveying Biodiversity In Various Marine Habitats	The Rhoades School	R. Hunker
644	2nd	Qiao	Isabelle	8	Green Roof Technology for Urban Heat Island Reduction	The Bishop's School	K. Kleinertz
645	2nd	Snodgrass	Ariana	6	Are Biodegradable Hydrogels Better than Commercially Available Hydrogels?	Mt. Helix Academy	K. MacDonald
646	3rd	Spolidoro Sullens	Mila Ava	6 6	Water Filters	St. Michael's School - Poway	K. McHale
647	3rd	Waits	Damian	8	San Diego What's In Your Water	Mt. Helix Academy	K. MacDonald
648	2nd	Weiser	Nava	8	An Untimely Demise: Reflecting on CO2 Optimization and Algae Growth for a Sustainable Future	San Diego Hebrew Day School	D. Pink
649	1st	Schuh	Chloe	8	Can Eelgrass Remove Toxic Copper Levels from the San Diego Bay?	The Children's School	D. Quincannon

	Junior Division - Engineering: Electrical, Mechanical, and Robotics (EEMR)											
661	1st	Akkarakaran	Eric	8	Sensor-Based Irrigation System	St. Michael's School - Poway	D. Jacob					
662	2nd	Alonso	Agustin	8	Making a Robotic Hand Speak Sign Language	Eastlake Middle School	G. Carrillo					
663	1st	Azevedo	Valente	7	Raspberry Eye	Francis Parker School	JP. Pierce					
664	2nd	Cottrell	Oliver	7	Personalized Homework Tutor Robot	La Jolla Country Day School	M. Bessler					
665	2nd	Fishler-Barraza	Vincent	8	Hand-Powered Energy: Electromagnetism for Portable Power Generation	Mt. Helix Academy	K. MacDonald					
666	3rd	Gonzalez Robertson	Alvaro Alec	7 7	V-22 Osprey Downwash During Takeoff	Mt. Helix Academy	K. MacDonald					
667	3rd	Gordon	Noah	7	Electronic Access Control	Mt. Helix Academy	K. MacDonald					
668	3rd	Gorman	Andrew	6	We Didn't Start the Fire	Rolling Hills Ranch Academy	S. Gorman					
669	1st	Lee Yang	Nathan Matthew	8 8	The Braille Box: Revolutionize Teaching to the Vision-impaired	The Cambridge School High School	M. Mayne					
670	1st	Monpays Swigart	Eva Julianna	7 7	DIY Beach Cleaning Robot	San Diego French American School	A. Mobley					

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Junior D	vivision - Eng	gine	ering: Electrical, Mechanical, and Robo	tics (EEMR) cont'd	
671	2nd	Paband	Humayra	8	The Eco-Buoy: An Ocean-Monitoring Smart Buoy	Bright Horizon Academy 6-8	N. Naserelddin
672	1st	Siddiqui	Aishah	6	D3: Diabetic Drink Doctor - A Tri-Sensor Beverage Testing Device for Diabetics	Bright Horizon Academy 6-8	N. Naserelddin
673	1st	Zoch	Ryan	8	The Effects of Sensor Configuration on Autonomous Vehicles	De Portola Middle School	M. Bridges
674	1st	Xu Hu	Andrew Ethan	7 8	Low-cost Portable Braille Embosser for Education	The Bishop's School	B. Barry

	Junior Division - Engineering: Energy, Materials, and Transport (EEMT)										
681	1st	Ahmad	Yasmine	6	Engineering a Ramp for Guinea Pigs	Muirlands Middle School	L. Trombley				
682	3rd	Albertson	Connor	8	A Free Mainsheet	The Children's School	T. Brown				
683	NS	Anderson Jr Ballew	Jonathan Tidus	8 8	Balloon Powered Car	Stella Maris Academy	E. Carrano				
684	1st	Ві	Amanda	6	The Flexible, Reusable Sound Insulator	La Jolla Country Day School	M. Bessler				
685	2nd	Burns Kassar	Alexander Charlie	8 7	SKID: A Kid Friendly Way to Get to the Slopes	The Children's School	T. Brown				
686	2nd	Garcia	Jenna	7	What Materials in Water Filters Work Best to Purify Water?	Nazareth School	M. Reed				
687	1st	Goldman	Stella	8	VolleyBlast: An Improved Way to Practice Volleyball on Your Own	The Children's School	T. Brown				
688	2nd	Hardy	Ellie	7	Cool or Warm? Hot or Cold? How Does Layering Shingles Affect House Temperature?	Nazareth School	M. Reed				
689	3rd	Hernandez Hoss	Roman Aiden	7 7	Anti-Bird Trash Stealer	The Children's School	T. Brown				
690	1st	Juan Gaxiola	Elias	6	How the Quality of Sand and Gravel Affects Concrete Strength	St. Mary's School - El Centro	C. Lizarraga				
691	3rd	Krishna	SaiPranav	7	Flight Distance	Bernardo Heights Middle School	D. Flynn				
692	2nd	Lerner	Aiden	8	GPSBall: A Way to Prevent Lost Golf Balls	The Children's School	T. Brown				
693	1st	Merten	Niall	6	Improving Solar Panel Efficiency	The Rhoades School	R. Hunker				
694	2nd	Park	Leia	7	Extending the Life of Dry Erase Markers	The Bishop's School	K. Kleinertz				

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Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
		Jun	ior Division -	Engir	neering: Energy, Materials, and Transp	ort (EEMT) cont'd	
695	1st	Rupiper Yandell	Nora Katie	6 6	Project RF	St. Michael's School - Poway	K. McHale
696	NS	Thomas	Edward	6	Smart Medication Pouch	St. Michael's School - Poway	K. McHale
597	1st	Wadhwani	Aarav	8	Application of Machine Learning to Decrease Aviation Incident Rates	Oak Valley Middle School	R. Villi
598	2nd	Wallace	Spencer	7	Shower Dynamo	La Jolla Country Day School	M. Bessler
699	3rd	Wang	Kiley	8	Charger Holders: A Way to Organize and Prevent Damage to Device Chargers	The Children's School	T. Brown
700	3rd	Gambhir Kassar	Kaden Ollie	7 7	MegaMolds: Making Old Clothes into Toys	The Children's School	T. Brown
				Ju	nior Division - Mathematics (MATH)		
711	1st	Green	Joie	7	May the Best Strategy Win: The Optimal Approach to Battleship	Muirlands Middle School	L. Trombley
				Ju	nior Division - Microbiology (MCRO)		
721	2nd	Beraha	lsaac	8	The Effect of UV Light, Blue Light, and Laser Light on Bacteria	San Diego Hebrew Day School	D. Pink
722	1st	Byun Liu	Hayden Olivia	6 6	Can Bacteria Fly?	Solana Pacific La Jolla Country Day	M. Bessler
723	3rd	Flora Gallegos	Brittany Stella	6 6	Mold Vs. Burgers	St. Peter the Apostle Catholic School	C. Diem
724	1st	Hammad	Alya	6	How Well Do Disinfectants Work?	Bright Horizon Academy 6-8	N. Naserelddir
725	3rd	Hanigan	Julie	8	Which Produces Mold Sooner, Organic or Non Organic Strawberries?	Chula Vista Middle School	T. Tom
726	2nd	Hendrix	Austin	8	Investigating Potentially Antibacterial Properties of Mastic Resin and Goldenseal	The Rhoades School	R. Hunker
27	1st	Hensley	Abigail	8	What Kinds of Bacteria are Found in the	Chula Vista Middle	T. Tom

Waters of Imperial Beach? Nature's Rinse: How Effective Are Natural 728 2nd Katari Aahan 6 Oak Valley Middle S. Katari Produce Washes? School 729 2nd Lin Michael 7 Can Beneficial Bacteria Survive Growth The Rhoades School R. Hunker Suppression in the Presence of Antibiotics? 730 Veronica Is There Scary Bacteria on Cutting Boards? Chula Vista Middle T. Tom 1st Pereira 8 School

School

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor				
	Junior Division - Microbiology (MCRO) cont'd										
731	3rd	Raschtschenia	Stasha	8	Which Room is the Dirtiest?	Mt. Helix Academy	K. MacDonald				
732	2nd	Sebalj	Keira	7	Spotless Showdown	St. Peter the Apostle Catholic School	C. Diem				
733	3rd	Snyder	Adina	8	Beneficial Bacteria in the Human Microbiome and its Correlation to Sound Frequencies Microbiology	San Diego Hebrew Day School	D. Pink				
734	1st	Way	Eleanor	8	How Does UV Exposure Affect the Growth of Yeast Colonies?	Chula Vista Middle School	T. Tom				

	Junior Division - Physics and Astronomy (PHYS)										
741	2nd	Benz	Matyas	7	Can You Improve the Safety of Driving in the Dark	Nazareth School	M. Reed				
742	2nd	Boniske	Ines	8	The Effect of Different Pirouette Turn Preparations	San Diego Hebrew Day School	D. Pink				
743	1st	Brum	Charles	8	StarSync: Local Orientation Synchronization Device	Elite Academic Academy	D. Brum				
744	1st	Factor	Simon	8	Basketball Bounce and Friction	San Diego Hebrew Day School	D. Pink				
745	3rd	Giby	Timothy	6	Extinguishing Fire Using Sound Waves	St. Michael's School - Poway	K. McHale				
746	1st	Giunta-Beeche	Juliette	7	Does the Strength of a Magnet Change with Temperature?	All Hallows Academy	M. Horvath				
747	3rd	Hendrick Monk	Kayden Annalise	8 8	The Mpemba Effect	Farb Middle School	P. Huntington				
748	3rd	Jordan	Thomas	7	How Does Court Surface Affect the Bounce of a Tennis Ball?	Nazareth School	M. Reed				
749	1st	Karetny	Emma	7	The Effect of Altitude of a Rocket Based on Varying Ratios of Baking Soda to Vinegar	Mt. Helix Academy	K. MacDonald				
750	2nd	Lara	Adalyn	8	The Effect of Cold Temperatures on Battery Lifespan	De Portola Middle School	M. Bridges				
751	1st	Lovette-Colyer	Ella	7	The Effects of Tap Boards on Tap Shoes	Nazareth School	M. Reed				
752	2nd	Mesnik	Evelyn	7	What Flooring Produces the Most and Least Friction?	Nazareth School	M. Reed				
753	2nd	Rasmussen	Kekoa	8	The Effect of Scuffing on Wiffle Ball Curve	De Portola Middle School	M. Bridges				
754	3rd	Roysdon	Penny	6	How Different Substances Affect the Melting Rate of an Ice Cube	City Tree Christian School 6-8	C. Glick				

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor				
	Junior Division - Physics and Astronomy (PHYS) cont'd										
755	2nd	Tedesco	Giovanni	8	The Different Distances Pickleballs Travel with Different Sized Holes	De Portola Middle School	M. Bridges				
756	1st	Stroud-Healey	Franklin	6	Measuring Magnetic Susceptibility of Liquids for Contaminates	Mt. Helix Academy	K. MacDonald				

				Jı	nior Division - Plant Sciences (PLNT)		
761	1st	Ax-Keating	lsaac	8	The Salinity Trinity: The Relationship Between Kelp, Temperature, and Salt Levels	San Diego Hebrew Day School	D. Pink
762	3rd	Daniels	Gemma	7	What Fertilizer Grows Grass the Best	All Hallows Academy	M. Horvath
763	3rd	Delgado	Elena	6	The Effect of Colored Light on Plant Growth	City Tree Christian School 6-8	C. Glick
764	2nd	Diep	William	6	Are Genetically Modified Plants a Solution for Farming on Mars?	Connect Academy Poway Unified	C. Matos
765	3rd	Gammage	Kennedy	7	Do Sound Vibrations Derived from Classical Music Stimulate Plant	All Hallows Academy	M. Horvath
766	1st	Goel Ye	Leela Luna	8 8	Effects of Salinity on California Coastal Sage Scrub Seed Germination	The Rhoades School	R. Hunker
767	2nd	Joby	Maria	6	What Type of Water Helps the Plant Grow?	St. Michael's School - Poway	K. McHale
768	2nd	Nair	Vyom	7	Can Expired Vitamin Supplements Be Used to Help Plant Growth?	The Bishop's School	K. Kleinertz
769	2nd	Palmer	Will	7	Does Positivity and Negativity Affect Plants?	All Hallows Academy	M. Horvath
770	1st	Roy	Amelie	8	Sustainable Gardening: Kitchen Scraps to Thriving Tomatoes!	San Diego French American School	A. Mobley
771	3rd	Wilson	Hannah	7	The Effect of Different Types of Water on Cut Flowers	City Tree Christian School 6-8	C. Glick

Junior	Division -	Product	Testing ((PROD)

781	3rd	Acabado	Jose	8	Drying Textiles	Chula Vista Middle School	T. Tom
782	1st	Andersen	Zachary	8	Decomposition of Compostable Bags and Best Brand for Carrying San Diego's Waste	De Portola Middle School	M. Bridges
783	1st	Barzal	Lily	7	Which Hand Soap is Best for Killing Bacteria?	All Hallows Academy	M. Horvath
784	1st	Bharadwaj Rajagopalan	Harshini Advita	8 8	MoisTRUE - Which Ingredient is Best in Retaining Moisture for Lip Balm?	Oak Valley Middle School	I. Chester

Prj ID	Award	Last Name	First Name	Gr	Project Title	School	Teacher/Advisor
			Ju	nior	Division - Product Testing (PROD) cont	:'d	
785	2nd	Byrne	Jack	7	Which Packaging Material Preserves Heat Longer: Eco Friendly or Not Eco Friendly?	Nazareth School	M. Reed
786	2nd	Conway	Sydney	7	Which 40 oz. Stainless Steel Water Bottle Keeps Water Coldest the Longest	Nazareth School	M. Reed
787	1st	Dimenstein	Anael	8	The Effect of Natural Heat Protectant Versus Synthetic Heat Protectant on Hair Tensile Strength and Cells	San Diego Hebrew Day School	D. Pink
788	3rd	Forrest	Trevor	7	What is the Stickiest Surf Wax	All Hallows Academy	M. Horvath
789	2nd	Gerrity	Miren	6	Do You Need That \$40 Water Bottle?	St. Michael's School - Poway	K. McHale
790	2nd	Gordon	Mila	8	Effects of Top and Base Coat on a Manicure	San Diego Hebrew Day School	D. Pink
791	1st	Hall	Eleanor	7	Strongest and Most Eco-Friendly Adhesive for Wood and Model- Making	Nazareth School	M. Reed
792	1st	Kaziha	Mariam	8	Can Beeswax Wrap Replace Plastic Wrap?	De Portola Middle School	M. Bridges
793	3rd	Medina	Grace	7	How to Determine the Height in Muffins Between Different Types of Flours	Mt. Helix Academy	K. MacDonald
794	3rd	Padron	Carlos	8	Which Brand of Potato Chips Has the Least Grease?	Chula Vista Middle School	T. Tom
795	2nd	Parker	Angelina	8	Do Certain Fabrics Absorb Higher Intensities of Heat from the Sun	Mt. Helix Academy	K. MacDonald
796	1st	Samuth	Vela	8	How Does the Amount of Vitamin C Vary in Different Fruit Juices?	De Portola Middle School	M. Bridges
797	2nd	Kozo	Auline	7	Do Different Types of Flours Affect Cookie Elevation	All Hallows Academy	M. Horvath
798	1st	Zanani	Gaia	8	Hair Damage from Chlorine	San Diego Hebrew Day School	D. Pink
799	2nd	Cadena Dagdug	Ana Daniela Luisana	6 6	Shrinking Crocs	Our Lady of Guadalupe Academy	J. Patton