

SENIOR DIVISION

Project ID	Award	Last Name	First Name	Gr	Project Title	School	Tchr/Advr
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Senior Division - Biochemistry

SR-BCH-276	2nd	Berkowitz	Alejandro	9	The Structure and Mechanisms of Alpha-Synuclein in Relation to Parkinson's Disease	Canyon Crest Academy	W. Slijk
SR-BCH-023	3rd	Bhalla	Sonakshi	11	Correlating PSEN1 Gene Homology of Animals with Alzheimer's Protein Using Bioinformatics Tools	Del Norte High School	F. Liao
SR-BCH-201	2nd	Delouri	Pia	11	Bye Leukemia! Sincerely, RNAi	Canyon Crest Academy	W. Slijk
SR-BCH-016	1st CSEF	Gan	Jessie	12	Calculating ENTH Domain Membrane Bending Constants for Continuum Modelling through CGMD	San Diego Jewish Academy	P. Hagarman
SR-BCH-034	1st CSEF	Gantla	Maanaskumar	10	Development of a Soy-Based Alternative Cheese	Canyon Crest Academy	W. Slijk
SR-BCH-149	3rd	Givens	Emily	11	Gliadin Protein Levels in Gluten Produced by Varying Countries	Canyon Crest Academy	W. Slijk
SR-BCH-104	1st CSEF	Wang	Daniel	11	Tackling COVID-19: A General Approach to Develop Novel "Superglue" Drugs	Torrey Pines High School	B. Belyea
SR-BCH-214	2nd	Wang	Kate	12	Application of Multi-omics Network Analysis to Identify Therapeutics for Atherosclerosis	Canyon Crest Academy	W. Slijk

Senior Division - Behavioral & Social Sciences

SR-BEH-088	2nd	Bundogji	Danna	10	Online Learning and Mental Health: Is Journaling the Answer?	Bright Horizon Academy	N. Nasereldin
SR-BEH-018	3rd	Guevara	Angela	11	Can Music or Calming Sounds Affect How Well Teenagers Concentrate?	Central Union High School	L. Rueda
SR-BEH-007	1st CSEF	Krishnamurthy	Hari	10	Predictive Behavioral Modeling of Global Asylum Adjudications - United States versus the European Union	Canyon Crest Academy	W. Slijk
SR-BEH-090	3rd	Munoz	Priscila	11	Parental Influence on Their Child's Political Beliefs	Central Union High School	L. Rueda
SR-BEH-061	2nd	Park	John	9	Has COVID-19 Made Students Better Liars?	Canyon Crest Academy	W. Slijk
SR-BEH-224	2nd	Sharma	Uma	9	The Circadian Rhythm: In Lockdown	Del Norte High School	K. Pytel

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Senior Division - Behavioral & Social Sciences (cont'd)

SR-BEH-152	1st CSEF	Shriram	Anjana	11	Investigating the Bilingual Advantage in Verbal Fluency & Its Relation to Executive Functioning in ASL vs. Non-ASL Individuals	Canyon Crest Academy	W. Slijk
SR-BEH-261	1st CSEF	Thaper	Mehar	9	Exploring Effects of an Inconsistent and Variant Teaching Environment on the Psychological State of Educators	Canyon Crest Academy	W. Slijk
SR-BEH-094	2nd	Zerboni	Dasha	10	Preventing Injuries from All Terrain Vehicles in Children	Canyon Crest Academy	W. Slijk

Senior Division - Chemistry

SR-CHM-071	1st	Wei	Abigail	10	Hydrogen Peroxide Just Got a Bit More Basic, or Not?	Canyon Crest Academy	W. Slijk
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Senior Division - Computer Sciences

SR-CSC-017	2nd	Bantval	Pranav	10	Can an Enhanced Deep Residual Network Be Used to Enhance CCTV Images Stored in Poor Resolution?	Canyon Crest Academy	W. Slijk
SR-CSC-097	2nd	Chatha	Arjun	9	Social Distance Detection: Utilizing AI for COVID-19 Guidelines	Canyon Crest Academy	W. Slijk
SR-CSC-241	2nd	Chilakapati	Nithin	11	Remote Piano Instruction by Locally Rendering 3D Animations of Keys & Pedals from MIDI Files	Canyon Crest Academy	W. Slijk
SR-CSC-084	1st CSEF	De	Rohit	10	Multi-qubit Hopping Deutsch-Jozsa Algorithm with Steganography to Defeat MITM Attacks During QKD	Del Norte High School	J. Buehler
SR-CSC-143	1st CSEF	Gupta	Yash	11	Analyzing the Effectiveness of Novel Classification Techniques for Detecting Knee Cartilage Damage	Canyon Crest Academy	T. Mauro
SR-CSC-282	1st CSEF	Hou	James	10	Probabilistic Approach to Analyzing Racial Bias in BERT on an Attribute Basis	The Bishop's School	M. Jaiclin
SR-CSC-025	2nd	Kang	William	11	Creating a Novel miRNA Descriptor System for Predicting miRNA Disease Association	Canyon Crest Academy	W. Slijk
SR-CSC-027	1st	Kapoor	Ishan	10	Deep Learning Approach for Depression and Stress Evaluation Using Facial Analysis	Del Norte High School	S. Kapoor

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Senior Division - Computer Sciences (cont'd)

SR-CSC-287	3rd	Khan	Mohammad	10	Using Machine Learning Algorithms to Predict the Spread of a Pandemic	Bright Horizon Academy	N. Nasereldin
SR-CSC-229	N	Kuang	Andrew	11	Neural Architecture Search to Differentiate Asthma and COPD	Canyon Crest Academy	A. Norbeck
SR-CSC-178	1st CSEF	Nayak	Ayush	10	A Deep Learning Approach to Complex Variation and Motif Detection for Phenotypes in Genomics	Westview High School	M. Ingram
SR-CSC-073	1st CSEF	Ng	Annabel	11	Improving Deep Neural Clinical Prediction Models with Textual Data Augmentation	Westview High School	D. David
SR-CSC-179	1st CSEF	Pillai	Nitya	11	Network Intrusion Detection Using Artificial Intelligence	Del Norte High School	J. Mortensen
SR-CSC-141	2nd	Rosenbaum	Maya	11	A Novel Multi-Layered Method For Image Steganography	Canyon Crest Academy	W. Slijk
SR-CSC-123	1st CSEF	Singh	Rajdeep	11	Threat Detection from Surveillance Camera Feeds	Canyon Crest Academy	W. Slijk
SR-CSC-037	1st CSEF	Sumpena	Edmund	11	Digital IoT Geofencing for Anti-Wandering Application: A Machine Learning Approach	Westview High School	D. David
SR-CSC-216	1st CSEF	Xu	Amy	11	A Machine Learning Approach to Alzheimer's Diagnosis through miRNA Biomarkers	Canyon Crest Academy	W. Slijk

Senior Division - Engineering: Electrical & Mechanical

SR-EEM-228	3rd	Alwazir	Issa	10	Deleting Drunk Driving	Bright Horizon Academy	N. Nasereldin
SR-EEM-239	2nd	Alwazir	Solaiman	10	Precision Using Control Algorithm	Bright Horizon Academy	N. Nasereldin
SR-EEM-222	2nd	Catanzaro Catanzaro	Francisco Marcus	12 9	Biomimetic Robotic Swarms for Obstacle Avoidance and Object Detection	Cathedral Catholic High School	M. Rafie
SR-EEM-257	1st CSEF	Fang	Jimmy	11	A Low-Cost Optical Quantum Random Number Generator	Torrey Pines High School	B. Belyea
SR-EEM-161	2nd	Khanvilkar	Manav	10	SMART Connected Walker for the Elderly	Canyon Crest Academy	D. Celniker
SR-EEM-206	2nd	Kuo	Marc	11	AnimalNet, A Decentralized Network for Monitoring Feral Animal Populations	La Jolla High School	J. Kuo

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Senior Division - Engineering: Electrical & Mechanical (cont'd)

SR-EEM-074	1st CSEF	McWilliams	Jessica	10	In-situ Pore Water and Sediment Sampler	Scripps Ranch High School	P. Fowler
SR-EEM-128	1st CSEF	Zeng	Michael	11	VAMP: A Versatile Autonomous Mobile Robotic Platform for Agility-Centered and Human-Servicing Applications	The Bishop's School	B. Heldt

Senior Division - Engineering: Energy & Transport

SR-EET-225	1st CSEF	Schremmer	Bella Rose	10	Clean Coastal Energy by a Piston-Buoy Rack and Pinion WEC System	University City High School	J. Bosch
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Senior Division - Engineering: Materials & Bioengineering

SR-EMB-114	2nd	Anderson	Ashton	9	The Impact Absorption Measurement of Non-Newtonian Fluids	Point Loma High School	M. Anderson
SR-EMB-049	1st CSEF	Fan	Kara	10	Dragonflies Beat Infection! Fabrication of Antibacterial Nanostructures for Orthopedic Implants	Westview High School	S. Halander
SR-EMB-001	3rd	Jeon	Ryan	9	"Jump Trampoline and Clean Water!" Play Type Water Filtering System Development by Leveraging "Appropriate Technology"	Westview High School	S. Halander
SR-EMB-148	2nd	Kincal	Mert	11	Formation Of Hydroxyapatite Shells on Alginate Beads for Tissue Engineering	Del Norte High School	K. Pytel
SR-EMB-151	2nd	Liu	Gwennie	11	Image Analysis of Osteoarthritic Cartilage Treated in vitro with Chondrogenic Cells	Torrey Pines High School	B. Belyea
SR-EMB-056	2nd	Rao	Rahul	9	Fine-Tuning Jump Shots Using Angle Measurements	Canyon Crest Academy	W. Slijk
SR-EMB-154	1st CSEF	Tianshi	Kyle	9	NEREID: Nanoparticle Examining Raspberry Pi Empowered Image Processing Detector	The Cambridge School High School	M. Mayne
SR-EMB-158	1st CSEF	Wright	Lindsay	12	Relationship Between pH, Elasticity, and Durability of Anion Exchange Membranes	Del Norte High School	I. Liao

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Senior Division - Environmental Sciences & Management

SR-ENV-029	 1st CSEF	Agrawal	Ayush	11	Early Warning Detection of Arsenic Contamination from Hyperspectral Remote Sensing and Deep Learning: An Application to Asia	Canyon Crest Academy	W. Slijk
SR-ENV-200	1st CSEF	Dai	Nathan	9	The Effect of Air Pollution and Weather on the Spread of COVID-19	Canyon Crest Academy	W. Slijk
SR-ENV-091	3rd	Demegillo Nepomuceno	Catherine Lea	10 10	Plastic Reduction Through Photodegradation Under Different Amounts of Time	Scripps Ranch High School	T. Demegillo
SR-ENV-250	2nd	Roman	Abby	11	To What Extent Does Thermal Pollution Affect the Growth of Elodea?	Bonita Vista High School	J. Ekstein
SR-ENV-210	3rd	Sanchez	Eduardo	11	Oyster Mushrooms and Its Ability to Absorb Motor Oil	Bonita Vista High School	J. Ekstein
SR-ENV-260	2nd	Wang Wu	Katie Lucia	10 10	Comparing the Penicillium Camemberti Fungi Grown in Conditions Optimal for Phycomyces Blakesleanus	Canyon Crest Academy	W. Slijk
SR-ENV-111	2nd	Zeng	Audrey	10	The Effect of Particulate Matter Concentrations on COVID-19 Infection Rates	Del Norte High School	H. Xu

Senior Division - Mathematical Sciences

SR-MAT-032	2nd	Beniwal	Sara	11	Determining If There is a Correlation Between US Voter Turnout and Characteristics Such as Age, GDP, and Level of Education	Del Norte High School	M. Derksen
SR-MAT-153	2nd	Chaturvedi	Archit	10	Mathematics in Epidemiology: Solving For and Analyzing a Nonic Polynomial that Models the Rate of Change Function Pertaining to the Incidence Rate of COVID-19 in Venezuela	Canyon Crest Academy	W. Slijk
SR-MAT-163	1st CSEF	Faktor	Benjamin	12	The Non-Homogeneous, Incompressible Navier-Stokes Equations	Canyon Crest Academy	W. Slijk
SR-MAT-115	2nd	McLarney	Gavin	10	The Politics of COVID-19	Canyon Crest Academy	W. Slijk

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Senior Division - Mathematical Sciences (cont'd)

SR-MAT-180	2nd	Rethnakar	Nivedita	11	Modeling the Dynamics of the COVID-19 Pandemic	Del Norte High School	J. Buehler
SR-MAT-184	1st CSEF	Sridharan	Agastya	9	MNN: A Biologically Inspired Recursive Time-Series Feedback Neural Network Architecture for Increased Generalizability	Scripps Ranch High School	P. Fowler
SR-MAT-213	1st CSEF	Um	Christopher	12	Achieving Quantum Parallelism by Analyzing the Interactions Between Particles through a Novel Design of Generalized Grover's Algorithm	Torrey Pines High School	B. Belyea

Senior Division - Medicine & Health Sciences

SR-MED-117	3rd	Belbese	Haya	11	The Road to the Cure of Alzheimer's - The Potential Effect of Walnut in Preventing Alzheimer's - A 4 Year Study	Bright Horizon Academy	N. Naserleddin
SR-MED-198	3rd	Chiniga	Rishi	11	Evaluation of a Natural Immune Support Juice Blend on Moderate to Severe Rheumatoid Arthritis: Effects on Inflammation and Fatigue	Francis Parker School	R. Tangirala
SR-MED-217	1st CSEF	Dandu	Neha	10	An Automatic, Accurate Algorithm for Identifying Tablets	Canyon Crest Academy	W. Slijk
SR-MED-235	2nd	Feng	Morgan	11	Investigating and Harnessing Cellular Responses to Interferon in the Fight against Cancer and Viral Infection	Westview High School	M. Christopher
SR-MED-075	1st CSEF	Gao	Andrew	11	Machine Learning and Bioinformatics Approach Yields Noninvasive miRNA Biomarkers for Early Lung Cancer Detection	Canyon Crest Academy	W. Slijk
SR-MED-100	2nd	Gupta	Kavya	10	Spatiotemporal-Models on Calcium Dynamics Highlighting AMPA Receptors in Dendritic Spine Geometry	Westview High School	M. Ingram
SR-MED-008	1st CSEF	Huang	Ryan	11	Antibody Profiling by Novel Multiplexed Immunoassays Revealed Microbiome-mediated Differential Humoral Immunity Related to Diverse COVID-19 Severity	Canyon Crest Academy	W. Slijk

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Senior Division - Medicine & Health Sciences (cont'd)

SR-MED-176	2nd	Hussain	Daanya	9	Effect of EMF on Planaria Growth & Behavior	Bright Horizon Academy	N. Nasereldin
SR-MED-205	1st CSEF	Jung	Chris	10	A Machine Learning Approach to Alzheimer's Diagnosis and Pathologic Interpretation	Canyon Crest Academy	W. Slijk
SR-MED-207	3rd	Li	Ivan	11	Targeting FGFR Alterations in Pediatric Cancers	Canyon Crest Academy	W. Slijk
SR-MED-208	1st CSEF	Li	Eric	11	Single-cell RNA-seq Analysis of Biomarkers in Gastric Cancer Caused by Helicobacter Pylori	The Bishop's School	L. Keller
SR-MED-086	1st CSEF	Mandyam	Atulya	11	Novel Biomarker for Identification of Bipolar Disorder Treatment Response	Westview High School	M. Ingram
SR-MED-258	2nd	Osman	Shukriya	10	Antioxidants: A Potential Key In Preventing High Risk Diseases	Bright Horizon Academy	N. Nasereldin
SR-MED-182	1st CSEF	Rupesh	Bhadra	9	Finding Risk Factors for Severe COVID-19 through a Meta-Analysis of Interferon-Pathway-Affecting Genes	The Bishop's School	L. Keller
SR-MED-185	2nd	Su	Nicole	11	Effect of pH and Glycan Presence on Adimab-15878 Binding to Ebolavirus Glycoprotein	Canyon Crest Academy	W. Slijk
SR-MED-021	1st	Surineni	Sreenidhi	11	Contribution of Membrane Raft Redox Signalling to Obesity-Induced Inflammasome Activation and Podocyte Injury	Canyon Crest Academy	W. Slijk
SR-MED-092	1st CSEF	Tang	Jason	12	Potential SARS-CoV-2 Nonstructural Protein 15 (NSP15) Inhibitors: Repurposing FDA-Approved Drugs	Canyon Crest Academy	W. Slijk
SR-MED-127	1st CSEF	Vermani	Aakarsh	11	Using Machine Learning and Deep Neural Networks to Repurpose FDA-Approved Drugs	Westview High School	M. Ingram
SR-MED-189	1st CSEF	Xu	Ellen	10	Developing a Robust Deep Ensemble Network for Kawasaki Disease Early Diagnosis	Del Norte High School	A. Callicott
SR-MED-190	1st CSEF	Xu	Shirley	10	ThreshNet: A Novel Machine Learning Technique to Optimize Sensitivity and Specificity Performance	The Bishop's School	M. Jaiclin
SR-MED-031	3rd	Yang	Elita	10	Comparing the Centrifugal Cleansings Between Human and Bovine Calf Osteochondral Cores	Pacific Ridge High School	L. O'Brien



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Senior Division - Medicine & Health Sciences (cont'd)

SR-MED-002	2nd	Zhang	Andrew	10	A Novel Blood-Based miRNA Diagnostic Test with Very High Accuracy for Early Screening and Monitoring of Lung Cancer Patients	Del Norte High School	K. Ozuna
SR-MED-264	1st CSEF	Zhu	Wanyi	12	The HTLV1 Stimulates Molecular Events that Induce Cancers of the Pancreas, Myeloid Tissue, Lungs, and Intestines	Canyon Crest Academy	W. Slijk

Senior Division - Microbiology

SR-MIC-202	1st CSEF	Dong	Elaine	10	Antibacterial Activities of Polymer Encapsulated Zinc Oxide Nanoparticles	Canyon Crest Academy	W. Slijk
SR-MIC-236	1st CSEF	Jung	Eleanor	10	Molecular Dynamics Simulation of Novel Klebsiella pneumoniae Treatment Disrupting the Outer Membrane	Mt. Carmel High School	A. Klingborg
SR-MIC-125	2nd	Zhu	Emily	10	Analysis of the Interactions Between SARS CoV-2 Spike Protein RBD Mutants and ACE2 Receptor	The Bishop's School	J. Zedalis

Senior Division - Physics & Astronomy

SR-PHY-146	2nd	Barrett	Aimee	10	Decibels to Broadway- Tap, Tap, Tap!	Central Union High School	L. Rueda
SR-PHY-169	1st CSEF	Clairmont	Ryan	11	Morpho-Kinematic and Hydrodynamic Modeling of the Cat's Eye Nebula	Canyon Crest Academy	W. Slijk
SR-PHY-107	1st CSEF	Li	Andrew	10	The Age of the Coma Ber Cluster Constrained Using Amateur Data	Canyon Crest Academy	W. Slijk
SR-PHY-227	1st CSEF	Vijayakumar	Vivek	12	Comparing the Mg I b and Ca II H&K Lines In Delta Scuti Stars	San Marcos High School	R. Terrill

Senior Division - Plant Sciences

SR-PLS-249	1st CSEF	Nunes	Diego	11	To What Extent Do Algal Blooms Affect the Growth of Duckweed Populations Over 4 Weeks?	Bonita Vista High School	J. Ekstein
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Senior Division - Plant Sciences (cont'd)


SR-PLS-038	2nd	Palayur	Sarah	10	Direct Plant Moisture Measurements to Conserve Water for Agricultural Practices	St. Joseph Academy 9-12	M. Rice
SR-PLS-050	1st CSEF	Sengupta	Suvali	11	Effect of Biodegradable Microporous Polymer and Mulch on Water Retention of Eruca Sativa	Westview High School	M. Ingram

JUNIOR DIVISION

Junior Division - Animal Sciences

JR-ANS-268	3rd	Alari Cross	Sarah Scout	6 6	The Effect of Positive Reinforcement on the Training Behavior of Goats	City Tree Christian School	M. Lee
JR-ANS-166	1st	Bove Burns	Preston Carlyn	8 8	Young Dog vs Middle-Aged vs Geriatric Dog Saliva	St. John School - Encinitas, CA	G. Heins
JR-ANS-059	2nd	Dant	Lily	7	What Activity Will Keep Goats Most Enriched and Engaged?	St. Michael's School Poway	J. Poling
JR-ANS-093	2nd	Konyn	Kiara	8	Prevalence of Early Embryotic Loss in Dairy Cattle	Classical Academy Middle School	H. Cooper
JR-ANS-066	1st CSEF BM	Mandyam	Tanya	7	How Jet Lag Affects Exercise Output	Mesa Verde Middle School	J. Woo
JR-ANS-232	2nd	Mansur	Julieta	8	The Effect of Colored Fruit on Fruit Flies	Soille SD Hebrew Day School	S. Jones
JR-ANS-065	1st CSEF BM	Roberts	John	7	How Dogs React to Someone They Know Giving Commands Through a Screen	St. Michael's School Poway	J. Poling
JR-ANS-003	2nd	Rosenberg	Amalya	8	A Treat You Say?	Soille SD Hebrew Day School	S. Jones
JR-ANS-139	N	Sorman	Gabrielle	7	Will the Amount of Sugar Affect a Hummingbird's Food Preferences?	Nazareth School	M. Reed
JR-ANS-265	3rd	Steele	Victoria	7	Nasty Ears	St. Michael's School Poway	J. Poling

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Junior Division - Biochemistry							
JR-BCH-042	1st CSEF	Bantval	Dhruv	6	Do Fresh or Frozen Vegetables Have More Vitamin C?	Sage Canyon Elementary School	K. Daniel
JR-BCH-263	 1st CSEF BM	Gao	Sarah	8	Finding Inhibitors of Bacterial Efflux Pump Proteins	Pacific Trails Middle School	S. Thacker
JR-BCH-072	1st CSEF BM	Kazi	Hafsah	8	Impact of Metals and Natural Remedies on Planaria	Bright Horizon Academy	N. Naserelddin
JR-BCH-220	2nd	Lawler-Ehr	Sophie	8	Avocado Oxidation	St. Peter the Apostle	T. Fantano
JR-BCH-279	2nd	Ostadan	Roya	7	Baking Soda vs Baking Powder: Which Will Rise to the Challenge?	Nativity School	T. Lunn

Junior Division - Behavioral & Social Sciences							
JR-BEH-256	3rd	Alrahib	Selma	7	Green, Yellow and Purple Food... YUCK	Nativity School	T. Lunn
JR-BEH-067	2nd	Bailleul	Reagan	7	How to Get Better Sleep with Technology or Meditation	St. Michael's School - Poway	J. Poling
JR-BEH-109	1st	Bateman	Siena	8	The Effect of Gender Bias on Kids Favorite School Subjects	The Children's School	D. Quincannon
JR-BEH-116	2nd	Cabrera	Elizabeth	7	The Primacy and Recency Effects: Patterns in Our Memory	Nativity School	T. Lunn
JR-BEH-019	2nd	Castellanos	Julia	7	Can Working in a Noisy Work Environment Decrease a Child's Work Development?	St. John School - Encinitas, CA	G. Heins
JR-BEH-165	2nd	Dodds	Evan	8	Why Can't People Put Video Games Down?	St. John School - Encinitas, CA	G. Heins
JR-BEH-043	2nd	Durazo	Sofia	7	Do Middle School Students Remember More with Colored Paper or Black and White Paper	Nazareth School	M. Reed
JR-BEH-192	1st CSEF BM	Foss	Spencer	8	Testing Priming with an Auditory Prompt	San Diego Jewish Academy	D. Dragon
JR-BEH-010	2nd	Frank	Sophia	8	Are Eyewitness Accounts Accurate?	St. John School - Encinitas, CA	G. Heins
JR-BEH-046	1st	Leeman	Rebecca	8	Does News Affect the Mood and Stress of Adults?	Soille SD Hebrew Day School	S. Jones
JR-BEH-273	3rd	Leftridge	Sofia	8	The Effect of Social Media Usage on Test Scores	City Tree Christian School	M. Lee

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Junior Division - Behavioral & Social Sciences (cont'd)							
JR-BEH-129	2nd	Lowy	Hannah	8	Visual vs Auditory Learning	San Diego Jewish Academy	D. Dragon
JR-BEH-177	2nd	Marmolejo	Grace	7	Laughing vs. Yawning	St. Francis of Assisi	B. Rajah-Boyer
JR-BEH-110	1st CSEF BM	Montal	Shane	8	The Effect of Gender on Gender Bias in Children	The Children's School	D. Quincannon
JR-BEH-026	3rd	Norberg	William	7	De-stressing Time	St. Michael's School - Poway	J. Poling
JR-BEH-131	3rd	Odenthal	Jake	7	What Color Is It?	St. John School - Encinitas, CA	G. Heins
JR-BEH-246	N	Peniche	Amelia	8	Body Image and Mental Health Awareness	The Children's School	D. Quincannon
JR-BEH-245	3rd	Pourteymour	Anisa	7	The Effect of Color Psychology	Nativity School	T. Lunn
JR-BEH-082	1st CSEF BM	Roberts	Ella	7	Memorable Music	Bonita Vista Middle School	C. Cardenas
JR-BEH-144	N	Ruddle	Noelle	8	Auditory, Visual, and Kinesthetic Learning and How It Affected Online School	St. John School - Encinitas, CA	G. Heins
JR-BEH-083	1st CSEF BM	Soberanes	Melissa	7	Mental Health in a Pandemic	Our Lady of Guadalupe Acad	J. Patton
JR-BEH-211	2nd	Srour	Angelina	7	What Type Of Commonly/Uncommonly Used Fonts Are Easier for People to Read?	Nazareth School	M. Reed
JR-BEH-080	2nd	Weiser	Yael	8	Masked and Answered	Soille SD Hebrew Day School	S. Jones
JR-BEH-278	1st	Wilson	Derek	7	What People Do in Their Free Time	St. Michael's School - Poway	J. Poling
JR-BEH-085	2nd	Zamora	Ava	7	Name Brand Clothing Expenses in Adolescence	St. Michael's School - Poway	J. Poling
JR-BEH-138	3rd	Zuna	Alexandra	7	Will Peppermints Cause Memory Recall?	Nativity School	T. Lunn

Junior Division - Chemistry

JR-CHM-271	2nd	Birdsell	Aureylia	7	The Effect of Length of Heating on Increase of Temperature with Liquids and Vessels	City Tree Christian School	M. Lee
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Junior Division - Chemistry (cont'd)							
JR-CHM-136	3rd	Delgado	Maya	7	Which Liquid Affects the Rate of Corrosion?	Bonita Vista Middle School	C. Shimasaki
JR-CHM-041	3rd	Gramme Rowin	Tori Grace	7	The Distilling of Water	St. Gregory the Great	S. Dasgupta
JR-CHM-015	3rd	Kinsley	Kai	7	Bubble Mania	St. Gregory the Great	S. Dasgupta
JR-CHM-036	1st CSEF	Plascencia	Cam	8	Different Kitchen Substances' Ability to Extinguish a Flame	Chula Vista Middle School	T. Tom
JR-CHM-064	2nd	Scott	Kayla	8	How Veganising a Cupcake Affects Its Baking Time	San Diego Jewish Academy	D. Dragon
JR-CHM-223	3rd	Soto	Miriam	8	Charting Evaporation	St. Peter the Apostle	T. Fantano
JR-CHM-098	3rd	Sparks	Jackson	7	Soda and Candy Eruption Experiment	St. Michael's School - Poway	J. Poling

Junior Division - Computer Sciences

JR-CSC-199	1st CSEF BM	Dagar	Arnav	7	A Study of AI Agents for Two Player Games	Pacific Trails Middle School	K. Chen
JR-CSC-096	2nd	Flores Jr.	Raymond	7	Student Time Management App	St. Michael's School - Poway	J. Poling
JR-CSC-081	1st CSEF	Gouslin	Cole	7	Matchbox AI	St. Gregory the Great	S. Dasgupta
JR-CSC-255	3rd	Koehnlein	John	8	Battle of Ages	St. Peter the Apostle	T. Fantano
JR-CSC-035	3rd	Lara	Christopher	8	Differences in Real World Physics and Virtual Physics	St. John of the Cross Catholic	G. Krumm
JR-CSC-145	3rd	Nguyen	Christopher	8	Caesar Cipher Comparison: C++, Python, and Java	St. John School - Encinitas, CA	G. Heins
JR-CSC-058	2nd	Owston	Eva	7	Foxy: A Mobile Application Demonstrating the Application of Artificial intelligence for Virtual Dermatological Care	Coastal Academy	B. Biernacki
JR-CSC-124	3rd	Pascual	Ace	7	Unbeatable AI	St. Gregory the Great	S. Dasgupta
JR-CSC-281	1st CSEF	Sood	Rohin	8	LinkedIn Algorithm to Automate the Employee Recruitment Process	Oak Valley Middle School	B. Gonzalez

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Junior Division - Consumer Sciences & Product Testing

JR-CSP-164	1st	Amsalem	Eyal	8	What Surf Wax Is The Stickiest?	Soille SD Hebrew Day School	S. Jones
JR-CSP-267	1st CSEF BM	Birch	Charlotte	6	The Effect of Different Types of Fat On How Cakes Rise, Their Taste, Texture and Appearance.	City Tree Christian School	M. Lee
JR-CSP-011	1st	Brocius	Aasha	8	Are Homemade Cleaning Solutions as Effective as Store-Bought Cleaning Solutions?	The Children's School	D. Quincannon
JR-CSP-212	3rd	Carroll Tan	Brynn Claudia	7 7	Uncomfortable Masks	St. Michael's School Poway	J. Poling
JR-CSP-014	2nd	Ceresia	Cameron	7	Bat Performance Testing	St. Gregory the Great	S. Dasgupta
JR-CSP-120	2nd	Chevron Kinnear	Bailey Mikala	7 7	The Unfoggable Facemask	St. Michael's School Poway	J. Poling
JR-CSP-060	1st CSEF BM	Feliciano	Alexa	7	Golf Ball Layers and Distances	St. Michael's School Poway	J. Poling
JR-CSP-274	2nd	Greenstein	Jessica	8	Effect of Variance of Clothing Sizes from Standard in Perception of Stores	The Children's School	D. Quincannon
JR-CSP-155	1st CSEF BM	Levy	Hadarya	8	Nevermind the Nails	Soille SD Hebrew Day School	S. Jones
JR-CSP-045	2nd	Malka	Yaron	8	Does It Tread?	Soille SD Hebrew Day School	S. Jones
JR-CSP-254	2nd	May	Luz Olyvia	7	Which Adhesive Tape Works Best to Patch a Deflated Soccer Ball?	Nazareth School	M. Reed
JR-CSP-230	2nd	Mirabal	Martina	7	Engineering and Testing Disposable Mask Material Curtain	St. Michael's School Poway	J. Poling
JR-CSP-057	2nd	Terry	Kate	7	Floating Pool Brush	St. Michael's School Poway	J. Poling
JR-CSP-135	1st CSEF	Totalou	Theodora	7	Which Product Preserves Rose Petals Best?	St. Michael's School Poway	J. Poling


Junior Division - Engineering: Electrical & Mechanical

JR-EEM-160	1st CSEF BM	Aly	Ziyad	8	Sensors Efficiency In Detecting Objects	Bright Horizon Academy	N. Nasereldin
JR-EEM-197	1st	Bisain	Aditya	6	Home Power Saving Robot	Solana Ranch Elementary School	R. Seelye

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Junior Division - Engineering: Electrical & Mechanical (cont'd)

JR-EEM-052	2nd	Brentnall	Finn	7	Effect of Temperature Change on Battery Longevity	St. Gregory the Great	S. Dasgupta
JR-EEM-102	3rd	Horn	Gila	8	STEM Around the World	Soille SD Hebrew Day School	S. Jones
JR-EEM-119	2nd	Terry	Chase	7	The Turboprop Engine: What Kind of Propeller Blade Creates the Most Revolutions Per Minute?	Nativity School	T. Lunn
JR-EEM-187	1st  CSEF BM	Timm	Isa	8	Designing a Bicycle Powered Charging System	The Children's School	D. Quincannon
JR-EEM-231	3rd	Todd	Spencer	7	Fold or Shred?	St. Michael's School-Poway	J. Poling
JR-EEM-159	2nd	Williams	Tyler	7	Robotic FireFighter	St. Michael's School-Poway	J. Poling

Junior Division - Engineering: Energy & Transport

JR-EET-076	1st CSEF	Cunningham	Grace	7	Is the Capacity of a Boat Affected by Volume?	Nazareth School	M. Reed
JR-EET-089	1st CSEF BM	Kalyanaraman	Anirudh	8	Optimization of Canard Configuration to Enhance Aircraft Carrier-based Operations	Mesa Verde Middle School	R. Bird
JR-EET-062	2nd	Martinez	Santiago	7	Does the Shape of an Airplane's Wing Influence the Distance It Travels?	Nazareth School	M. Reed
JR-EET-105	3rd	Murphy Schumann	Brendan Robert	7 7	Tesla Summon Feature vs. Infinity Auto Brake	St. Gregory the Great	S. Dasgupta
JR-EET-077	3rd	Parker	Luke	7	Is There a Better Way to Power Ships?	St. Gregory the Great	S. Dasgupta
JR-EET-033	3rd	Raagas	Kaitlyn	7	Determining the Production of Volts from Water at Different Temperatures and Falling Heights	St. Gregory the Great	S. Dasgupta
JR-EET-068	3rd	Vandenberg	Sawyer	7	How to Silence a Fan-Powered Car	Nativity School	T. Lunn

Junior Division - Engineering: Materials & Bioengineering

JR-EMB-004	3rd	Cresswell	Parker	7	Adjustable Football Gloves	St. Michael's School-Poway	J. Poling
JR-EMB-284	3rd	Dujowich	Eduardo	8	How to Block High Pitched Noises	Soille SD Hebrew Day School	S. Jones

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Junior Division - Engineering: Materials & Bioengineering (cont'd)

JR-EMB-248	1st	Kraljevic Rogers	Charles Kai	7 7	The Water Bottle Project	St. Michael's School Poway	J. Poling
JR-EMB-103	1st	Paul	Elizabeth	7	Stretchy Pencil Bag	St. Michael's School Poway	J. Poling
JR-EMB-253	1st	Peikes	Aharon	8	What Type of Wood Pulp Makes Ice the Most Heat Resistant?	Soille SD Hebrew Day School	S. Jones
JR-EMB-006	2nd	Romano	Jordan	7	Aerodynamics of Paper Airplanes	Mt. Helix Academy	K. MacDonald
JR-EMB-244	3rd	Sadr	Kayhan	8	The Coronaball	The Children's School	D. Quincannon
JR-EMB-022	1st CSEF BM	Xu	Kayley	6	Cooling Straws	The Bishop's School	L. Cummings

Junior Division - Environmental Sciences & Management

JR-ENV-087	3rd	Alcala	Abigail	7	Ocean Waste	St. Michael's School Poway	J. Poling
JR-ENV-047	1st CSEF	Arrogante	Nate	8	Does Rainfall and Temperature Affect pH	Coastal Academy	B. Biernacki
JR-ENV-195	3rd	Barnes	Leah	8	Formaldehyde in Chula Vista, National City, Coronado, Bonita, and East Lake	Chula Vista Middle School	T. Tom
JR-ENV-196	3rd	Barrera	Natalie	8	Distance Traveled of a Disposable Mask	Chula Vista Middle School	T. Tom
JR-ENV-171	2nd	DiFrancia	Austin	7	The Impact of Litter on the Earth	St. Michael's School Poway	J. Poling
JR-PHY-240	2nd	Dionne	Colin	8	Reach For the Stars: Part 2	St. Peter the Apostle	T. Fantano
JR-ENV-147	2nd	Eiseman	Zachary	8	Effectively Reducing Electromagnetic Radiation From Technology	Soille SD Hebrew Day School	S. Jones
JR-ENV-069	3rd	Gehler	Samantha	7	How to Reduce Pollution	St. Michael's School Poway	J. Poling
JR-ENV-272	3rd	Honaker	Andrew	6	The Effect of Ocean Water from Southern California on Phytoplankton	City Tree Christian School	M. Lee
JR-ENV-013	1st CSEF	Jackson	Carter	8	Assessing the Effects of Water Contaminants on Algae Degradation	Coastal Academy	B. Biernacki
JR-ENV-270	3rd	Johnson	Vincent	6	The Effect of Direction of Solar Panels on Heat Energy	City Tree Christian School	M. Lee

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Junior Division - Environmental Sciences & Management (cont'd)

JR-ENV-218	2nd	Marce	Bernardo	6	Are "Biodegradable" Products Really Biodegradable?	Our Lady of Guadalupe Acad	J. Patton
JR-ENV-078	1st CSEF BM	McWilliams	Alyssa	8	Keeping Office Buildings Cool	Thurgood Marshall Middle School	E. Schumacher
JR-ENV-137	2nd	Pham	Adrian	7	Which Surfing Beach Has the Cleanest Water?	Nazareth School	M. Reed
JR-ENV-181	2nd	Rivera	Samantha	8	Which Method of Water Purification Removes the Most Dissolved Solids?	Chula Vista Middle School	T. Tom
JR-ENV-233	1st CSEF	Rotunda	Alex	8	Fuel Cell vs Fuel	St. Peter the Apostle	T. Fantano
JR-ENV-226	N	Sessoms	Amiya	8	Cleaning Oil Spills in Tidepools	Farb Middle	P. Huntington
JR-ENV-183	2nd	Simanski	Sonria Rheiglene	8	How Much Water is Wasted When Waiting for the Shower to Warm?	Chula Vista Middle School	T. Tom
JR-ENV-099	3rd	Solomon	Addison	7	Something in the Water, Testing Water Alkalinity in San Diego	St. Gregory the Great	S. Dasgupta
JR-ENV-028	2nd	Talaga	Kristine	7	Salt Water Desalination	St. Gregory the Great	S. Dasgupta
JR-ENV-118	1st CSEF BM	Verkoczy	Annie	7	Environmental Factors that Increase or Decrease Solar Energy Production in San Diego County, California	St. Michael's School Poway	J. Poling

Junior Division - Earth & Planetary Sciences

JR-EPL-243	3rd	Aron	Nadav	8	The Browns and Greens of Composting	Soille SD Hebrew Day School	S. Jones
JR-EPL-126	1st CSEF BM	Bhat	Neha	8	Using Google Earth Engine to Identify California Gnatcatcher Habitats	Carmel Valley Middle School	N. Clum
JR-EPL-204	3rd	Grondalski	John	7	Pollution	St. Michael's School Poway	J. Poling
JR-EPL-238	2nd	Jeff	Evelyn	8	Pollution and Its Effect on the Growth of Plants and Crops	The Children's School	D. Quincannon
JR-EPL-108	2nd	Rojas-Morgan	Anabelle	7	The Best Way to Extinguish a Fire	St. Michael's School Poway	J. Poling


Junior Division - Mathematical Sciences

JR-MAT-142	2nd	Broudy	Ariel	8	An Analysis of Prime Knot Counting Functions	Soille SD Hebrew Day School	S. Jones
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Junior Division - Mathematical Sciences (cont'd)

JR-MAT-130	1st CSEF BM	Brown	Logan	8	Visualizing Complex, Time Dependent, Fourier Transform Functions in Three-Dimensions	High Tech Middle North County	C. Olivas
JR-MAT-020	 1st CSEF BM	Erat	Sidarth	8	Colonel Blotto Game: An Analysis & Extensions to Networks	Erat School	S. Erat
JR-MAT-209	1st CSEF	Madhukara	Nandana	8	A Novel Method of Creating Atmospheric Models to Combat Climate Change	Pacific Trails Middle School	S. Thacker

Junior Division - Medicine & Health Sciences

JR-MED-055	1st CSEF	Aguilar	Frances	7	Factors Affecting the Body's Response to Exercise	St. Michael's School Poway	J. Poling
JR-MED-167	2nd	Barillas	Nicolas	8	Eye See You	St. Peter the Apostle	T. Fantano
JR-MED-170	N	Cuevas	Madison	7	Healthy Eating	Nativity School	T. Lunn
JR-MED-173	3rd	Estrada Phan	Luke Brett	7 7	Kinesiology Tape Project	St. Michael's School Poway	J. Poling
JR-MED-203	 1st CSEF BM	Fan	Leanne	7	Controlling Middle Ear Infection Using Photodynamic Therapy	Mesa Verde Middle School	J. Woo
JR-MED-285	2nd	Franssens	Roman	7	What is the Best Mask Fabric for Stopping Water Molecules?	Nazareth School	M. Reed
JR-MED-262	 1st CSEF BM	Gao	William	7	Finding Noninvasive Pancreatic Cancer MicroRNA Biomarkers	Pacific Trails Middle School	S. Thacker
JR-MED-012	3rd	Horie	Hana	7	Are Sunglasses as UV Protective as They Say They Are?	St. Gregory the Great	S. Dasgupta
JR-MED-242	2nd	Lam	Nadia	8	Spread Soap Not Germs! Does Washing Your Hands Really Clean You?	Our Lady of Guadalupe Academy	J. Patton
JR-MED-266	1st CSEF	Morin	Emma	7	The Effect on Different Flooring Types on the Amount of Dust Taken in by a Model Lung	City Tree Christian School	M. Lee
JR-MED-039	1st	Moryosef	Avigal	8	Pills Dissolving Rate	Soille SD Hebrew Day School	S. Jones
JR-MED-188	 1st CSEF BM	Xu	Kate	8	Identifying Patterns in Kawasaki Disease Patients through Data Analysis and Visualization	Oak Valley Middle School	K. Smith

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Junior Division - Microbiology

JR-MIC-247	3rd	Alles	Kailie	8	The Ex-Germinators	St. Peter the Apostle	T. Fantano
JR-MIC-070	3rd	Cohen	Simon	8	Human Mouth Bacteria Exposure	Soille SD Hebrew Day School	S. Jones
JR-MIC-051	1st	Dogra	Saanvi	7	Effect of Heme vs. Non-Heme Iron Supplements on Gut Microbiome Fitness	Oak Valley Middle School	B. Gonzalez
JR-MIC-101	3rd	Ellis	David	8	Spray Away	Soille SD Hebrew Day School	S. Jones
JR-MIC-172	2nd	Emerson	Charlize	8	How pH Levels of Water Affect Yeast Growth	Chula Vista Middle School	T. Tom
JR-MIC-133	2nd	Michelsen Michelsen	Lucas Sarah	7 7	Which Cleaning Solution is Best at Eliminating Germs on a Surface?	St. John School - Encinitas, CA	G. Heins
JR-MIC-186	3rd	Thomas	Chloe	8	Truth or Myth? 5 Second Rule	St. Peter the Apostle	T. Fantano
JR-MIC-112	1st CSEF	Youssef	Sarah	8	The Effectiveness of Herbal Treatments on Staphylococcus	Bright Horizon Academy	N. Nasereddin
JR-MIC-095	1st CSEF BM	Zagursky	Andres	8	Relative Effectiveness of Disinfectants and Ultraviolet C Light In Reducing Bacterial Contamination	Soille SD Hebrew Day School	S. Jones

Junior Division - Physics & Astronomy

JR-PHY-048	1st CSEF BM	Balkowski	Grace	7	Does the Length of Artificial Turf Blades Affect the Distance a Soccer Ball Travels?	Nazareth School	M. Reed
JR-PHY-168	3rd	Ceja	America	8	Do Darker Color Shades Absorb More Heat?	Chula Vista Middle School	T. Tom
JR-PHY-054	1st CSEF BM	Chandra	Vikramaditya Sidharth	8	Estimating the Location of Sagittarius A* using Globular Clusters	San Elijo Middle School	S. Bireddy
JR-PHY-162	2nd	Colucci	Alexander	7	The Effect of Weight on the Distance an Object Travels	St. John School - Encinitas, CA	G. Heins
JR-PHY-024	2nd	Duarte	Faith	8	Counting the Stars	Coastal Academy	B. Biernacki
JR-PHY-174	1st CSEF	Gorman	Charles	6	Pump & Circumstance	Classical Conversations	S. Gorman

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Junior Division - Physics & Astronomy (cont'd)

JR-PHY-063	1st CSEF BM	Hall	Micah	8	How Does Fin Size Affect Rocket Stability?	Mt. Helix Academy	K. MacDonald
JR-PHY-157	3rd	Huntington	Rhiannon	8	Proof Bullet?	Farb Middle School	P. Huntington
JR-PHY-044	3rd	Korn	Richard	7	Does How You Hold Your Ukulele Affect the Sound?	St. Gregory the Great	S. Dasgupta
JR-PHY-150	2nd	McPhail	Colin	7	Hydraulic Efficiency	St. John School - Encinitas, CA	G. Heins
JR-PHY-237	2nd	Muraoka	Cassidy	8	Operation Radiation	Chula Vista Middle School	T. Tom
JR-PHY-005	2nd	Palecek	Lyla	7	Altitude's Effect on the Speed of a Lacrosse Ball	St. John School - Encinitas, CA	G. Heins
JR-PHY-122	2nd	Putrus	John	8	Items Introduced to Friction vs. Thermal Slime	Mt. Helix Academy	K. MacDonald
JR-PHY-132	3rd	Vania	Gabriel	8	When the Soccer Ball Curves: Behind the Scenes	De Portola Middle School	M. Bridges

Junior Division - Plant Sciences

JR-PLS-283	2nd	Adato	Shira	8	The Effect of Mineral Supplements on Plant Growth	Soille SD Hebrew Day School	S. Jones
JR-PLS-113	3rd	Bailey	Katie	7	The Garden of Flowers	St. Gregory the Great	S. Dasgupta
JR-PLS-030	1st CSEF	Beltran	Faith	7	Determining Greywater Types on the Growth Rates of Osteospermum	St. Gregory the Great	S. Dasgupta
JR-PLS-286	3rd	Hastings	Eliana	8	The Effect of Microbes on Plants	Soille SD Hebrew Day School	S. Jones
JR-PLS-175	1st CSEF	Hernandez	Natalie	8	Which Gardening Method Produces Higher Lettuce Growth? Hydroponic or Soil?	Chula Vista Middle School	T. Tom
JR-PLS-280	3rd	Mendoza	Fatima	8	Will It Grow?	St. Peter the Apostle	T. Fantano
JR-PLS-252	2nd	Muniz Sigala	Cielo	7	Using Homemade Fertilizers to Find the Best Results in Radishes	Bonita Vista Middle School	C. Shimasaki

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Junior Division - Plant Sciences (cont'd)

JR-PLS-219	3rd	Territo Wahl	Francesca Avery	7 7	Are Essential Oils More Effective than RoundUp	St. Michael's School Poway	J. Poling
JR-PLS-053	2nd	Tran	Cate	7	Elodea and Photosynthesis	St. Michael's School Poway	J. Poling