

**68th Annual Greater San Diego Science & Engineering Fair - 2022**  
**Categorical Place Awards by Last Name**

Project ID	Award	Last Name	First Name	Gr	Project Title	School	Tchr/Adv
<b>JUNIOR DIVISION - ANIMAL SCIENCES</b>							
JR-ANIM-206	2nd	Abdulaziz	Omar	6	Do Western Bluebirds Experience and Show Their Emotions to Each Other?	Bright Horizon Academy	N. Naserelddin
JR-ANIM-253 Team	2nd	Arias- Alejo Kalapala	Gladys Isabella	7 7	Dogs with Headphones	St. Peter the Apostle Catholic School	T. Fantano
 JR-ANIM-298	1st GARU-LS CSEF BM	Brocius	Ava	8	The Effect of Carbon Dioxide on Bioluminescent Dinoflagellates	The Children's School	D. Quincannon
JR-ANIM-297	3rd	De Lara	Eithan	8	Are Ants Attracted to Specific Colors in Their Food?	Soille San Diego Hebrew Day School	s. Jones
JR-ANIM-316	3rd	Matkov	McKayla	7	The Effect Light Has on How Fast Mice Complete a Maze	The Children's School	D. Quincannon
JR-ANIM-317	1st CSEF BM	Shaked	Rachel	8	The Effects of Different Colors and Sugars on Hummingbirds	Soille San Diego Hebrew Day School	S. Jones
JR-ANIM-228	NS	Shue	Mizuki	8	Do Cats Have a Color Preference	St. Didacus Parish School	R. Miller
 JR-ANIM-029	1st GARU-LS CSEF BM	Wyatt	Ronald	8	How Long Does It Take for Superworms to Eat Styrofoam?	Chula Vista Middle School	T. Tom
<b>JUNIOR DIVISION - BEHAVIORAL AND SOCIAL SCIENCES</b>							
JR-BEHA-299	1st CSEF BM	Ajanovic	Aya	6	Do Certain Items Improve Concentration?	Bright Horizon Academy	N. Naserelddin
JR-BEHA-319	2nd	Ali	Ibtisam	8	How Frequencies Affect Focus	Bright Horizon Academy	N. Naserelddin
JR-BEHA-229	1st CSEF	Cabarios	Caelyn	7	Can You Make a Happy Song Sad?	Bonita Vista Middle School	C. Shimasaki
JR-BEHA-036	3rd	Cabrera	Elizabeth	8	Commonly Remembered Information vs. The Serial Position Effect	St. Didacus Parish School	R. Miller
JR-BEHA-285	4th	Caro	Xavier	7	Does the Time of Beginning of School Affect Students' Attention Spans?	St. Michael's School - Poway	L. Ray
JR-BEHA-048 Team	2nd	Curtis Martin	Brooke Cecilia	7 7	Noisy Brain	St. John School - Encinitas, CA	G. Heins
JR-BEHA-210	1st	Eilemberg	Asher	8	Tool or Toy?	Soille San Diego Hebrew Day School	S. Jones

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<b>JUNIOR DIVISION - BEHAVIORAL AND SOCIAL SCIENCES (cont'd)</b>							
JR-BEHA-040	2nd	Esbeck	Ashlyn	8	Listening to Music While Taking a Test	St. John School - Encinitas, CA	G. Heins
JR-BEHA-035	3rd	Fries	Zoe	8	Colored LED's vs. The Human Eye	St. Didacus Parish School	R. Miller
JR-BEHA-198	NS	Golembesky	Rachael	8	What are the Effects of Personal Care Products on Adults?	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-045	1st CSEF	Goncalves	Lily	7	The Gamer Theory	St. John School - Encinitas, CA	G. Heins
JR-BEHA-039	2nd	Guizar	Andre	7	How Does Smell Affect Taste	San Diego French American School	A. Mobley
JR-BEHA-320	3rd	Hall	Kennedy	7	What is the Effect of Colors on Someone's Mind or Emotions?	Mt. Helix Academy	K. MacDonald
JR-BEHA-043	1st CSEF	Herrera	Valerie	7	Same Shape Different Labels	Bonita Vista Middle School	C. Shimasaki
JR-BEHA-255 Team	3rd	Hill Liem	Lauren Leandra	8 8	Effects of Certain Scent Categories on the Human's Limbic System and Heart Rate	Stella Maris Academy	M. Flores
JR-BEHA-038	1st CSEF	Ingram	Gianna	8	Does Test Anxiety Affect Test Performance	St. John School - Encinitas, CA	G. Heins
JR-BEHA-340	1st CSEF BM	Jacobs	Hillel	8	AI vs. Kids: Mold	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-242	1st CSEF BM	Khong	Hannah	7	Study of Effects of Inconsistent Sleep Schedules on Cognitive Abilities	St. Michael's School - Poway	L. Ray
JR-BEHA-301	3rd	Kupersmith	Aaron	8	The Decisions in Which a Child Will Hire a Babysitter When They Have Multiple Options of Who to Choose	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-209	NS	Maya	Esther	8	Do Students Work Better in Pairs or Alone, and is Age a Factor	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-349	2nd	McCabe	James	7	Stressed from Covid-19? Look to Hobbies!	St. Michael's School - Poway	L. Ray
JR-BEHA-300	2nd	Mizan	Shiraz	8	Does Color Affect Your Memory?	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-044	1st CSEF BM	Montemayor	Maliya	7	The Beauty of the Golden Ratio: Fact or Fib?	St. John School - Encinitas, CA	G. Heins
JR-BEHA-182	2nd	Moore	Yasmina	8	The Effect of Stress on Test Performance	City Tree Christian School 6-8	M. Lee

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<b>JUNIOR DIVISION - BEHAVIORAL AND SOCIAL SCIENCES (cont'd)</b>							
JR-BEHA-047 Team	3rd	Noves Price	Sophia Gabriella	7 7	Does a Simulated 3D Environment Make Human Beings React Differently to Reality?	San Diego French American School	A. Mobley
JR-BEHA-042	3rd	O'Connell	Cillian	7	Running Faster	St. Michael's School - Poway	L. Ray
JR-BEHA-041	3rd	Quezada	Gabriel	8	Mindful Music: How Music Affects Memory	St. John School - Encinitas, CA	G. Heins
JR-BEHA-318	2nd	Rothstein	Emma	8	Does Color Have an Affect on Taste	Soille San Diego Hebrew Day School	S. Jones
JR-BEHA-183 Team	4th	Salazar Thomas	Alexa Sophia	7 7	The Effect of Sight on Distinguishing Taste	City Tree Christian School 6-8	M. Lee
JR-BEHA-037	2nd	Savant	Luca	7	Does Color Affect the Taste?	St. John School - Encinitas, CA	G. Heins
JR-BEHA-302	2nd	Snowten	Harmoney	8	The Effect of Personality Type on Memory Task Performance	City Tree Christian School 6-8	M. Lee
JR-BEHA-341	1st CSEF	Soukup	Branden	7	Lobe at First Sleight	Mt. Helix Academy	K. MacDonald
JR-BEHA-230	1st CSEF BM	Weissler	Eliora	8	Does Dyslexie Font Affect Individuals Without Dyslexia?	Soille San Diego Hebrew Day School	S. Jones
<b>JUNIOR DIVISION - BIOCHEMISTRY</b>							
JR-BCHM-031	3rd	Alvarez	Andres	8	Which Plant Generates the Most Electricity: Potatoes or Lemons	Chula Vista Middle School	T. Tom
JR-BCHM-241 Team	2nd	Chuprevich Martinez	Joel Ella Jean	7 7	Kitchen Full of Germs	St. Peter the Apostle Catholic School	T. Fantano
JR-BCHM-207	1st CSEF BM	Khan	Mohammad Adam	6	The Effect of Cooking on Vitamin C	Bright Horizon Academy	N. Naserelddin
JR-BCHM-032	2nd	Mendoza	Olivia	7	Which Type of Honey Has the Least Glucose?	Bonita Vista Middle School	C. Shimasaki
JR-BCHM-240 Team	3rd	Minderman Reyes	Miranda Stephanie	7 7	Is the Five Second Rule Real?	St. Peter the Apostle Catholic School	T. Fantano
JR-BCHM-208	NS	Qarar	Yusra	6	Will Soaking Food in Water Before Cooking Remove Starch from It?	Bright Horizon Academy	N. Naserelddin
JR-BCHM-030	NS	Vu	Christopher	7	Vitamin C Level Comparison Between Different Oranges' Juices and Skins	Nativity School	L. McTavish

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<b>JUNIOR DIVISION - BIOMEDICAL/HEALTH SCIENCES AND BIOENGINEERING</b>							
JR-BMDE-050	3rd	Alfaro	Daniela	7	Did Older People Have Less Side Effects from the Covid-19 Vaccine than Younger People?	Nazareth School	M. Reed
JR-BMDE-049	NS	Cacho	Alexa	8	Are Fingerprints Inherited?	St. John of the Cross Catholic School	G. Krumm
JR-BMDE-051 	1st GA-LS CSEF BM	Fan	Leanne	8	Finsen Headphone: A Smart headphone to Diagnose and Control Middle Ear Infection Using Machine Learning and Light Spectrum	Mesa Verde Middle School	R. Bird
JR-BMDE-203	2nd	Guerrero	Elaine	8	What Type of Face Mask is More Breathable?	St. Peter the Apostle Catholic School	T. Fantano
JR-BMDE-243	NS	Jackson	Mia	7	Which Mask Performs the Best?	Nazareth School	M. Reed
JR-BMDE-028	2nd	Mandyam	Tanya	8	Curcumin Alleviates the Effects of Jet Lag on Exercise Output in Rats	Mesa Verde Middle School	J. Woo
JR-BMDE-350	NS	Pacheco	Rick	8	The Best Hand Drying Technology	Coastal Academy	B. Biernacki
JR-BMDE-052	3rd	Schneider	Elizabeth	7	J.S. Bach's Minuet Trio and Their Effect on 7-17 Year Old's Heart Rates	St. Michael's School - Poway	L. Ray
JR-BMDE-193	3rd	Serawit	Naomi	8	The Effectiveness of Fruit Supplements	St. Didacus Parish School	R. Miller
JR-BMDE-053	3rd	Soberanes	Melissa	8	What Affects the Covid-19 Vaccine Side-Effects	Our Lady of Guadalupe Academy	J. Patton
<b>JUNIOR DIVISION - CHEMISTRY</b>							
JR-CHEM-063	2nd	Carr	Frankie	7	The Effect of Substances on Non-Human Proteins	St. Michael's School - Poway	L. Ray
JR-CHEM-060	2nd	Corona	Alyssa	8	Tide vs. Homemade Detergent	Chula Vista Middle School	T. Tom
JR-CHEM-057	1st CSEF BM	Estill	Daniel	7	Crack Snap Shine: Tempering Chocolate	Bonita Vista Middle School	C. Shimasaki
JR-CHEM-066 Team	1st CSEF BM	Ganji Ganji	Vibha Vidha	8 8	Can We Enrich the Percentage of Curcumin from Turmeric by Removing Non-curcuminoids Using Water Extraction?	Oak Valley Middle School	N. Ganji
JR-CHEM-286	2nd	Griffith	Hayley	8	The Effects of Acidity on the Oxidation of Steel Wool	St. Peter the Apostle Catholic School	T. Fantano

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<b>JUNIOR DIVISION - CHEMISTRY (cont'd)</b>							
JR-CHEM-244	2nd	Herman	Ruth	8	What Melts Ice the Fastest	St. Peter the Apostle Catholic School	T. Fantano
JR-CHEM-304	1st	Johnston	Alex	8	The Effect of Different Flour Types on Muffin Height	City Tree Christian School 6-8	M. Lee
JR-CHEM-067 Team	2nd	Jones Leighton	Bennet Ozzie	7 7	Finding Electrolytes in Sport Drinks	St. Gregory the Great Catholic School	S. Dasgupta
JR-CHEM-063	2nd	Kishimoto	Elise Selei	7	The Effect of Substances on Non-Human Proteins	St. Michael's School - Poway	L. Ray
JR-CHEM-059	2nd	Lindsey	Ashlie	7	The Effect of Air Temperature on the Crystallization of Bismuth Metal	City Tree Christian School 6-8	M. Lee
JR-CHEM-056	2nd	Moreno	Antonio	7	Bye Bye Salt	St. Peter the Apostle Catholic School	T. Fantano
JR-CHEM-062	2nd	Mudwilder	Aaleya	7	What's the Fastest Way to Cool a Drink, and Does the Sugar Content Have an Effect?	St. Gregory the Great Catholic School	S. Dasgupta
JR-CHEM-303	3rd	Petrie	Kenji	8	Chambers of Flames	St. Peter the Apostle Catholic School	T. Fantano
JR-CHEM-181	3rd	Pham	Michelle	7	The Effect of Ingredients in Baking Time	St. Michael's School - Poway	L. Ray
JR-CHEM-058	1st CSEF BM	Teresi	Lillianna	7	Most Effective Activator for Slime	St. Michael's School - Poway	L. Ray
JR-CHEM-061	3rd	Vassar	Eli	7	Water Quality in San Diego City Parks	St. Michael's School - Poway	L. Ray
JR-CHEM-055	2nd	Wilson	Elliot	7	A-maize-ing Popcorn Kernels!	Bonita Vista Middle School	J. Stell
JR-CHEM-199	2nd	Zanani	Yarden	8	Soaperior	Soille San Diego Hebrew Day School	S. Jones
<b>JUNIOR DIVISION - COMPUTATIONAL BIOLOGY AND BIOINFORMATICS</b>							
JR-CBIO-054	1st CSEF	Dogra	Saanvi	8	Structural, Sequence, and Germline Comparison of SARS-COV-2 Antibodies Across Humans and Mice	Oak Valley Middle School	S. Kumar
<b>JUNIOR DIVISION - COMPUTER SCIENCE AND SYSTEMS SOFTWARE</b>							
JR-COMP-068	2nd	Bisain	Aditya	7	Augmented Reality Application for Solving Social Awkwardness	Pacific Trails Middle School	M. Mareth

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<b>JUNIOR DIVISION - COMPUTER SCIENCE AND SYSTEMS SOFTWARE (cont'd)</b>							
JR-COMP-305 	1st GA-PS CSEF BM	Dagar	Arnav	8	Where's Waldo - A Bayesian Approach for Localizing a LEGO Robot	Pacific Trails Middle School	M. Mareth
JR-COMP-069	3rd	Flores	Sebastian	7	Do People Reuse Passwords for Their Accounts?	Mt. Helix Academy	K. MacDonald
JR-COMP-321	3rd	Pathria	Sachin	7	Soccer Penalty-Kick Predictor	The Children's School	D. Quincannon
JR-COMP-070	3rd	Zwolinski	Alexander	7	Do the Variables in Video Games Affect the Score?	St. Gregory the Great Catholic School	S. Dasgupta
<b>JUNIOR DIVISION - EARTH AND ENVIRONMENTAL SCIENCES</b>							
JR-EAEV-212 Team	1st CSEF BM	Aly Naveed	Omar Haadi	6 6	A Potential Solution to Purify Irrigation Water from Heavy Metal Pollutants	Bright Horizon Academy	N. Naserelddin
JR-EAEV-074	3rd	Arellano	Nurah	8	How Do Different Soils Affect the pH of Water?	St. John of the Cross Catholic School	G. Krumm
JR-EAEV-077	1st CSEF	Bridges	Alana	7	Using Different Methods to Clean Water	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-079 Team	2nd	Chan Talavera	Cassidy Jessica	7 7	Desalination	St. Michael's School - Poway	L. Ray
JR-EAEV-080 Team	1st CSEF BM	Chandler McComic	Jason Cole	7	Water Pods	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-071	2nd	Deilke	Drew	7	Do You Need to Clean Your Solar Panels?	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-073	3rd	Herrera	Michelle	8	Homemade Water Filter	Chula Vista Middle School	T. Tom
JR-EAEV-211	1st CSEF BM	Hertzog	Penelope	7	Can Plants Be Used to Desalinate Soil?	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-342	4th	Hillyard	Thea	8	The Affect of Air Quality on Water Quality	The Children's School	D. Quincannon
JR-EAEV-076	2nd	Lawrenz	Samuel	7	The Impact of Compost on Organic and Non-Organic Soil	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-277	1st CSEF	Marce	Bernardo	7	Are We Disposing Of Biodegradable Products Correctly	Our Lady of Guadalupe Academy	J. Patton

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JR-EAEV-075	2nd	Michelsen	Sarah	8	How Environmental Conditions Affect the Intensity of Sound Waves in Water	St. John School - Encinitas, CA	G. Heins
JR-EAEV-184	3rd	Morin	Emma	8	The Effect of Manure and Coffee Grounds on Raising Nitrogen Levels:	City Tree Christian School 6-8	M. Lee
JR-EAEV-072	2nd	Rose	Autumn	7	Grass Patch Repair and Its Relationship to Watering, Substrate, and Resistance to Leaching	St. Gregory the Great Catholic School	S. Dasgupta
JR-EAEV-256	3rd	Washington	Aijah	8	What Material Filters Water the Best?	St. Peter the Apostle Catholic School	T. Fantano
JR-EAEV-078	1st CSEF	Xu	Kayley	7	Using Machine Learning Algorithms to Predict Water Potability	The Bishop's School	M. Samale
JR-EAEV-323	3rd	Zamora	Eli	8	The Effect of Water on Wood	St. Didacus Parish School	R. Miller
<b>JUNIOR DIVISION - ENGINEERING: ELECTRICAL, MECHANICAL, AND ROBOTICS</b>							
JR-EEMR-081	2nd	Anderson	Julian	7	Battery Power vs. Solar Power	St. John School - Encinitas, CA	G. Heins
 JR-EEMR-083	1st GARU-PS CSEF BM	Bantval	Dhruv	7	Development of Smart Stick with Visual and Ultrasonic Sensor to Assist Visually Impaired	Pacific Trails Middle School	L. McVay
JR-EEMR-086	2nd	Dhamim	Ayyub	8	Auto Lockdown Safety Sensors	Bright Horizon Academy	N. Naserelddin
 JR-EEMR-200	1st GA-PS CSEF BM	Dimenstein	Shiloh	8	LIV: Litter Identification Vehicle	Soille San Diego Hebrew Day School	S. Jones
JR-EEMR-324	NS	Hamel	Leo	7	How Far Can a Gauss Rifle Shoot	Mt. Helix Academy	K. MacDonald
JR-EEMR-306	3rd	Housden	Hannah	8	The Self-Powered City of the Future, Using Kinetic and Solar Together	The Children's School	D. Quincannon
JR-EEMR-326	NS	Howton	Sophia	8	Using Light to Determine If a Fruit is Ripe	The Children's School	D. Quincannon
 JR-EEMR-082	1st GARU-PS CSEF BM	Leivers-Breise	Danielle	8	Deodorant Alarm	The Children's School	D. Quincannon
JR-EEMR-085	2nd	Mallory	Henry	8	The Effect of Different Wattages of Batteries in an Electromagnetic Motor	St. John School - Encinitas, CA	G. Heins

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<b>JUNIOR DIVISION - ENGINEERING: ELECTRICAL, MECHANICAL, AND ROBOTICS (cont'd)</b>							
JR-EEMR-084	2nd	Morales	Diego	8	How to Raise a Hydraulic Elevator	St. John of the Cross Catholic School	G. Krumm
JR-EEMR-175	2nd	Odenthal	Jake	8	The Effect of Different Surfaces on a Custom-Built Mini Electric Car	St. John School - Encinitas, CA	G. Heins
JR-EEMR-325	NS	O'Donnell	Oliver	8	Tire Traction and Grip	Mt. Helix Academy	K. MacDonald
JR-EEMR-194	3rd	Ward	Paddy	8	A Water Efficient Irrigation System	St. Didacus Parish School	R. Miller
<b>JUNIOR DIVISION - ENGINEERING: ENERGY, MATERIALS, AND TRANSPORT</b>							
JR-EEMT-328	NS	Abbott	Maxwell	8	How High Does a Golf Ball Bounce on Different Types of Surfaces	Mt. Helix Academy	K. MacDonald
JR-EEMT-353 Team	2nd	Banda Carrillo Leal	Ana Marisela	8 8	How Does Color Affect Our Energy Footprint?	Our Lady of Guadalupe Academy	J. Patton
JR-EEMT-246	2nd	Boeh	Nicholas	8	What Insulation is the Best for Insulating a House	St. Didacus Parish School	R. Miller
JR-EEMT-257 Team	2nd	Buitron McGrain	Max Atticus	8 8	The Heavy-Duty Dog Toy	The Children's School	D. Quincannon
JR-EEMT-092	NS	Burke	Caelan	7	The Safe and Secure Hand Washing Station	St. Michael's School - Poway	L. Ray
JR-EEMT-088	1st CSEF	Colucci	Alexander	8	Do Reflectors Affect the Speed of a Solar Powered Car?	St. John School - Encinitas, CA	G. Heins
JR-EEMT-329	1st CSEF	Gurtch	Maria	8	The Multi Camper	The Children's School	D. Quincannon
JR-EEMT-327	2nd	Krauss	Miranda	8	Building Stability Influenced by Shape	Mt. Helix Academy	K. MacDonald
JR-EEMT-089	1st CSEF BM	Lucero	Eric	7	Does the Color of the Roof Affect the Efficiency of Your Solar Panels?	St. Gregory the Great Catholic School	S. Dasgupta
JR-EEMT-096 Team	2nd	Lyons Simon	Nathan Lorenzo	7 7	What Material Reflects the Most Solar Energy?	St. Michael's School - Poway	L. Ray
JR-EEMT-352	1st CSEF BM	McGuinness	Stella	8	The Portable Wheelchair Ramp	The Children's School	D. Quincannon
JR-EEMT-090	3rd	Mendoza	Maximiliano	7	How Dense Does an Aluminum Foil Sphere Boat Have to Be Before It Sinks	Bonita Vista Middle School	C. Shimasaki
JR-EEMT-087	1st	Meringolo	Mark	7	A Vegetable Powered Future	Nativity School	L. McTavish

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JR-EEMT-330	2nd	Middleton	Olivia	8	Volleyball Serving Brace	The Children's School	D. Quincannon
JR-EEMT-093	2nd	Orabona	Joseph	7	Which Building Design Withstands Earthquakes the Best?	St. Michael's School - Poway	L. Ray
JR-EEMT-091	2nd	Paccaloni-Cordero	Olivia	8	Portable Multitasking Camping Tool	The Children's School	D. Quincannon
JR-EEMT-288	1st CSEF BM	Poch	Olivia	8	The Ultimate Storm Drain Solution	The Children's School	D. Quincannon
JR-EEMT-331	NS	Romano	Jordan	8	Which Paper Airplane Shape Achieves the Most Aerodynamics and Flies the Farthest	Mt. Helix Academy	K. MacDonald
JR-EEMT-094	2nd	Vosburgh	Tyler	8	Which Material Blocks Water the Best Inside of a Sandbag?	St. John School - Encinitas, CA	G. Heins
JR-EEMT-307	3rd	Whittle	Logan	7	Does the String Pattern of a Tennis Racket Affect How Far the Ball Goes?	Nazareth School	M. Reed
<b>JUNIOR DIVISION - MATHEMATICS</b>							
JR-MATH-097	1st CSEF BM	Bayona	Benito	7	Does Chaos Theory Influence the Flow of Liquids?	St. Gregory the Great Catholic School	S. Dasgupta
<b>JUNIOR DIVISION - MICROBIOLOGY</b>							
JR-MCRO-332	3rd	Bemaras	David	8	5 Second Rule	Soille San Diego Hebrew Day School	S. Jones
JR-MCRO-201	2nd	Broudy	Yael	8	Masked Microbes: Bacteria Growth in Short-Term Mask Storage Methods	Soille San Diego Hebrew Day School	S. Jones
JR-MCRO-099	2nd	Burchell	Jaden	7	How Often Do You Need to Clean an Emergency Waiting Room in Order to Keep Everyone Safe?	Nazareth School	M. Reed
JR-MCRO-278	3rd	Cheikka	Emily	8	Bacteria on Dance Shoes	Soille San Diego Hebrew Day School	S. Jones
JR-MCRO-180 Team	3rd	Dawson McPherson	Adelyn Maggie	7 7	Which Soap Cleans More Bacteria: Chemical or Natural	St. Michael's School - Poway	L. Ray
JR-MCRO-204	3rd	Gonzalez	Sol	8	What Mask Works Best to Decrease the Spread of COVID-19 and Other Viruses?	Chula Vista Middle School	T. Tom
JR-MCRO-289	2nd	Hakmon	Sivan	8	Diluting Disinfectants	Soille San Diego Hebrew Day School	S. Jones

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JR-MCRO-098	3rd	Quinn	Jayleen	8	Germes Vs. Handsoap	Chula Vista Middle School	T. Tom
JR-MCRO-034 Team	4th	Trujillo Uriostegui	Ashlyn Samantha	7 7	Holy Water Testing	St. Peter the Apostle Catholic School	T. Fantano
<b>JUNIOR DIVISION - PHYSICS AND ASTRONOMY</b>							
JR-PHYS-107	NS	Alioto	Sam	7	Which Materials Silence the Drums Most Effectively?	St. Gregory the Great Catholic School	S. Dasgupta
JR-PHYS-333	2nd	Birdsell	Aureylia	8	The Effect of Parachute Material and Shape on Time of Descent	City Tree Christian School 6-8	M. Lee
JR-PHYS-105	2nd	Contreras	Santiago	8	What Type of Cup Amplifies Sound the Most?	Chula Vista Middle School	T. Tom
JR-PHYS-186 Team	4th	DeCarolis Johnson	Audrey Vincent	7 7	The Effect of Light Contrast on Visibility of Rays in Photos	City Tree Christian School 6-8	M. Lee
JR-PHYS-196	1st CSEF	Gao	William	8	Resistance is Futile! Using Machine Learning to Predict Critical Temperatures of Superconductors	Pacific Trails Middle School	S. Thacker
JR-PHYS-213	NS	Gonzalez	Andrea	7	How Color Affects Heat	Bonita Vista Middle School	C. Shimasaki
JR-PHYS-185	3rd	Kouli	Haissam	8	The Effect of Blowing Wind onto Hot Food Substances	City Tree Christian School 6-8	M. Lee
JR-PHYS-103	4th	Liang	Nikolas	7	How Does Angle Affect Speed	Bonita Vista Middle School	C. Shimasaki
JR-PHYS-195	3rd	Lopez	Misael	8	A Comparison of Cushioning Materials When Conducting an Egg Drop	St. Didacus Parish School	R. Miller
JR-PHYS-351	NS	McEvoy	Maeve	8	Materials Effect on the Performance of a Glider	The Children's School	D. Quincannon
JR-PHYS-100	2nd	Michalowski	Kenneth	8	A Comparison of a Bridge Structure's Ability to Hold Weight	St. Didacus Parish School	R. Miller
JR-PHYS-106	1st CSEF BM	Michelsen	Lucas	8	Which Gliding Raptor Wing Shape Creates the Most Lift per Surface Area?	St. John School - Encinitas, CA	G. Heins
JR-PHYS-334	3rd	Nagal	Matthew	7	Using a Digital Camera to Measure Skyglow	Mt. Helix Academy	K. MacDonald
JR-PHYS-102	1st CSEF	Niguidula	Tristen	7	How Do High Temperatures Affect the Elasticity of Rubber?	St. Gregory the Great Catholic School	S. Dasgupta
JR-PHYS-187 Team	2nd	Norin Thompson	Luke Zachary	8 8	The Effect of Type of Liquid on Surface Tension	City Tree Christian School 6-8	M. Lee

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<b>JUNIOR DIVISION - PHYSICS AND ASTRONOMY (cont'd)</b>							
JR-PHYS-101	3rd	Zavala	Edgar	8	Does a Helium Soccer Ball Bounce Higher Than a Normal Soccer Ball?	Chula Vista Middle School	T. Tom
JR-PHYS-104	3rd	Zomerdyke	Max	7	Stealthy Shapes: How to Make an Aircraft Invisible to Radar	St. Gregory the Great Catholic School	S. Dasgupta
<b>JUNIOR DIVISION - PLANT SCIENCES</b>							
JR-PLNT-215	3rd	Adatto	Shira	8	Does Carbonated Water Help Plants Grow Taller?	Soille San Diego Hebrew Day School	S. Jones
JR-PLNT-108	3rd	Brennan	Chase	7	Does the Mineral Content in Water Affect Plant Growth?	San Diego French American School	A. Mobley
JR-PLNT-110	3rd	Cordaro	Jacob	8	Effects of Natural Pesticides on Plants	St. John School - Encinitas, CA	G. Heins
JR-PLNT-279	1st	Factor	Adin	8	The Effect of Different Watering Techniques on Plants	Soille San Diego Hebrew Day School	S. Jones
JR-PLNT-113	1st CSEF BM	Habas	Julia	7	Observing Plant Growth Rate and Flavor Depending on Different Liquids	St. Michael's School - Poway	L. Ray
JR-PLNT-232	1st	Leboffe	Selah	8	Hydrogen Peroxide: Friend or Foe?	De Portola Middle School	M. Bridges
JR-PLNT-202	2nd	Lerner	Aiden	8	Plant Memory	Soille San Diego Hebrew Day School	S. Jones
JR-PLNT-117 Team	2nd	Mara Olaes	Annika Avery	7 7	Native California Plant Recovery from Fires using Different Types of Water	St. Michael's School - Poway	L. Ray
JR-PLNT-111	3rd	Matz	Blake	7	How Do Liquids Affect Plants?	San Diego French American School	A. Mobley
JR-PLNT-335	2nd	McElfresh	Daniela	8	Does Hair Beautification Lead to Environmental Degradation?	Soille San Diego Hebrew Day School	S. Jones
JR-PLNT-109 	1st GA-LS CSEF BM	Moore	Kai	8	Effect of Kelp Fertilizer on Growth Rate of Eruca sativa	The Children's School	D. Quincannon
JR-PLNT-115	2nd	O'Malley	Meaghan	8	The Effect of Soaps on Plant Growth	St. John School - Encinitas, CA	G. Heins
JR-PLNT-112	3rd	Pacheco	Lauren	8	How Does Carbon Dioxide Affect Plant Germination?	St. John of the Cross Catholic School	G. Krumm
JR-PLNT-258	3rd	Parsons	Lily	7	Plant Growth	St. Michael's School - Poway	L. Ray
JR-PLNT-114	3rd	Schmidt	Cade	7	The Best Type of Water for Radish Growth	St. Gregory the Great Catholic School	S. Dasgupta

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<b>JUNIOR DIVISION - PLANT SCIENCES (cont'd)</b>							
JR-PLNT-118 Team	2nd	Suzara Wisniew	Riley Jack	7 7	Hydroponics vs Soil	St. Gregory the Great Catholic School	S. Dasgupta
JR-PLNT-116	1st CSEF	Zumwalt	James	7	The Effects of Regular and Eco-Friendly Detergent Greywater on Plants	St. Gregory the Great Catholic School	S. Dasgupta
JR-PLNT-188	2nd	Zwierzykowski	Kasia	7	The Effect of Sea Air on Tomato Plant Growth in Length	City Tree Christian School 6-8	M. Lee
<b>JUNIOR DIVISION - PRODUCT TESTING (Junior Division Only)</b>							
JR-PROD-322	1st CSEF	Arnold	Wyatt	7	Does Sunscreen with Zinc or No Zinc Do Better at Blocking the Sun's UV Rays?	Mt. Helix Academy	K. MacDonald
JR-PROD-192	1st	Audiss	Isabella	8	A Water Bottle's Ability to Stay Cold for Hourly Increments	St. Didacus Parish School	R. Miller
JR-PROD-122	1st CSEF	Berardino	Anthony	7	Which Type of Catcher's Chest Protectors Protects Someone the Most	Nazareth School	M. Reed
JR-PROD-260	1st CSEF BM	Birch	Charlotte	7	The Effect of Different Types of Packaging on the Properties of "Freshness" of a Carrot	City Tree Christian School 6-8	M. Lee
JR-PROD-259	2nd	Fritzler	Olivia	8	A Comparison of Bubble Gum Brands	St. Didacus Parish School	R. Miller
JR-PROD-205	2nd	Godinez	Carlos	8	Do More Expensive Battery Brands Last Longer?	Chula Vista Middle School	T. Tom
JR-PROD-336	4th	Green	Emerson	8	What is the Fastest Way to Cool a Soda?	Mt. Helix Academy	K. MacDonald
JR-PROD-120	2nd	Jones	Sofia	8	Duct Tapes Stickiness	St. Didacus Parish School	R. Miller
JR-PROD-124 Team	2nd	Kassar Sandoval	Simon Mia	8 8	The Effect of Paper Towel Brands on Absorbing Water	The Children's School	D. Quincannon
JR-PROD-119	3rd	Larios	Arianna	6	Birthday Candles	St. Vincent De Paul	S. Ballman / A. Avalos
JR-PROD-176	2nd	Loebig	Maya	7	Softy Gloss	St. John School - Encinitas, CA	G. Heins
JR-PROD-191	3rd	Mulvey	Liam	8	Which Water Bottle Stays the Coldest the Longest	St. Didacus Parish School	R. Miller
JR-PROD-123 Team	2nd	Nasrawi Paraiso	Sophia Ava Rosalena	7 7	Longevity of Designer Perfumes	St. Michael's School - Poway	L. Ray

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<b>JUNIOR DIVISION - PRODUCT TESTING (Junior Division Only) (cont'd)</b>							
JR-PROD-247	4th	Nguyen	Katie	8	The Difference in Durability Between LDPE and HDPE Plastic Bags	St. Didacus Parish School	R. Miller
JR-PROD-121	2nd	Quinn	Gemma	8	The Effect of Plastic Wrap Against Evaporation	St. Didacus Parish School	R. Miller