

ANIMAL BIOLOGY - JR J01

Adam Young	Science Academy STEM Magnet (Junior Division) Sarah White	First Place J0107	<i>The Affect of Heat On the Growth of Insects</i>
Seungah Chung	National Youth Community Center (Junior) Wonjong Kim	Second Place J0112	<i>Ant's Memory</i>
Ayah Hamdan	Al-Huda Islamic School Rula Alshanableh	Third Place J0102	<i>Heart Rate Recovery Time for Athletes Versus Non-Athletes</i>
Zayd Rokerya	Institute of Knowledge Middle School Selena Khan	Honorable Mention J0109	<i>The Power of Lungs: Investigating the Effect of Exercise on Pulmonary Function</i>
Leana Asatourian	Chamlan Armenian School Iida Gevorkian	Recognition J0106	<i>Oxygen's Effect on Aging!</i>
Elisa Crespo Mirat	Palos Verdes Intermediate School Ashley Hughes	Recognition J0105	<i>Main Genes Associated With Immortality in Turritopsis Dohrnii</i>
Nairi Gabri Sandra Simonian Aline Kazanjian	Holy Martyrs Ferrahian Middle School Sanahine Balian Chahinian	Recognition J0114	<i>Blood Spatters</i>
Amber Izaac	Lashon Academy Jonathan Abelson	Recognition J0108	<i>Mosquito and Fly Trap</i>
Isabelle Jardeleza Isabelle Jardeleza Frida Villegas	Assumption of the Blessed Virgin Mary, Pasadena Patrick Boldt	Recognition J0111	<i>What Types of Flowers Are Butterflies Most Attracted To?</i>
Elizabeth Moffet	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J0103	<i>How is a Horse's Fitness Impacted by Their Living Arrangement?</i>
Donovan Tan Harvey Lee Kryuzen Wong	Stratford School Viraji Weerasena	Recognition J0101	<i>Capturing Fingerprints</i>
Alexandra Vassileva	Miraleste Intermediate School Ashley Hughes	Recognition J0110	<i>Using Natural Substances, Plant Oils and Extracts as Repellent for the Aedes aegypti Mosquito</i>
Autumn Zheng	Rancho Pico Junior High School Catherine Nicholas	Recognition J0104	<i>Stent Structure Saves Lives</i>

ANIMAL PHYSIOLOGY - JR J02

Ameya Balaji	Cathedral Chapel School Donielle Mitchell	First Place J0201	<i>Aspartame's Game on Planarian Motility & Stereotypy</i>
Faris Hafid Asiyah Safdari	Al-Huda Islamic School Rula Alshanableh	Second Place J0204	<i>Decoding Non-Verbal Communication in Children with Autism and Autism Spectrum Disorder.</i>

Shayan Azam	Institute of Knowledge Middle School Selena Khan	Third Place J0206	<i>Just Relax and Breathe: A Comparative Analysis of Diaphragmatic and Thoracic Breathing Efficiency Across Age Groups</i>
Mia Geronimo Alejandra Ramirez Clara Martinez	Bell Gardens Intermediate School Catheline Merilus	Honorable Mention J0203	<i>Yuck Mouth</i>
Eshal Janjua	Institute of Knowledge Middle School Selena Khan	Honorable Mention J0205	<i>Fact or Fiction: Can Caffeine Affect One's Vision?</i>
Akshobh Karthik	Ridgecrest Intermediate School Ashley Hughes	Honorable Mention J0202	<i>Migraine's Influence: Unraveling White Matter Lesions and Dopamine Dysfunction in Parkinson's Disease</i>
BEHAVIORAL SCIENCE - NON-HUMAN - JR J03			
Hyunjin Song	National Youth Community Center (Junior) Wonjong Kim	First Place J0301	<i>Relationship Between Venus Trap's Closing Behavior and the Level of Nitrogen in Their Soil</i>
Ella Markarian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Third Place J0302	<i>With or Without the Help?</i>
BEHAVIORAL/SOCIAL SCIENCES - HUMAN - JR J04			
Sana Khan	Al-Huda Islamic School Rula Alshanableh	First Place J0431	<i>Tick Tock on the Clock! A Study of Time Perception in the Age of Social Media.</i>
Evalyn Yu	Palos Verdes Intermediate School Ashley Hughes	First Place J0415	<i>The Psoriasis Puzzle: Analyzing Changes in Mental and Physical Health in Psoriasis Patients Pre- and Post-COVID</i>
Joshua Blond	Portola Highly Gifted Magnet Ruth Gramajo	Second Place J0406	<i>Testing Bias in Art</i>
Alexandria Haro	Archer School for Girls (Junior) Jerilyn Neshek	Third Place J0427	<i>Canceling the Noise Helps: The Effects of Noise-Canceling Headphones.</i>
Eli Yaghoubi	Beverly Vista Middle School Alyssa Langevin	Third Place J0428	<i>Does the Amount of Sleep Impact a Student's GPA?</i>
Serena Aluizo	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Honorable Mention J0432	<i>Does the Time of Day Affect the Amount of French Fries You Are Served?</i>
Haley Lazarus	Archer School for Girls (Junior) Jerilyn Neshek	Honorable Mention J0404	<i>Testing and Stressing: How Taking a Test Affects a Student's Heart Rate</i>

Aaira Mansoor	Institute of Knowledge Middle School Selena Khan	Honorable Mention J0410	<i>Mindflex: Evaluating the Impact of IQ Games on Memory Enhancement</i>
Nicolette Nejat Liana Elbaz Talia Notowitz	Temple Beth Am Pressman Academy Sam Forman	Honorable Mention J0414	<i>The Memory of Introverts and Extroverts</i>
Amalia Pinsky Penny Pearlman	Temple Beth Am Pressman Academy Sam Forman	Honorable Mention J0433	<i>Peppermints VS. Reaction Time</i>
Maral Shahnazarian	Chamlan Armenian School Iida Gevorkian	Honorable Mention J0429	<i>Analyzing the Amount of Sugar in Beverages to Determine Which Has Worse Impact On Type 2 Diabetes</i>
Mark Wendell	Walter Reed Middle School Joyann Sofio	Honorable Mention J0424	<i>Neighborhood Slow Down</i>
Fatima Zahid	Al-Huda Islamic School Rula Alshanableh	Honorable Mention J0422	<i>A Study on the Effect of Age on Short-Term Memory</i>
Allix Andrade	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J0419	<i>Forensic Sciences and Memory; Should We Rely on It?</i>
Kyle Bahadourian	Holy Martyrs Ferrahian Middle School Sanahine Balian Chahinian	Recognition J0417	<i>Does Playing Video Games Improve Hand-Eye Coordination</i>
Chana Bodner	Temple Beth Am Pressman Academy Sam Forman	Recognition J0403	<i>Scents and Emotions</i>
Daniela Calderon	Lashon Academy Jonathan Abelson	Recognition J0421	<i>The Stroop Effect</i>
Abigail Carrasco Ruby Ramirez Jesus Rosas	Bell Gardens Intermediate School Catheline Merilus	Recognition J0420	<i>Nutritional Showdown</i>
Aaron Chiou Dylan Solorzano	New West Charter Eric Burke	Recognition J0408	<i>Stranger Danger</i>
Jessica Huerta Dannalee Rodriguez Gael Garcia	Bell Gardens Intermediate School Catheline Merilus	Recognition J0405	<i>Brain Battle</i>
Liora Kemell	Temple Beth Am Pressman Academy Sam Forman	Recognition J0407	<i>Can Classical Music Help You Study?</i>
Yenna Kim	Walter Reed Middle School Joyann Sofio	Recognition J0434	<i>The Waste of Grocery Shopping</i>

Kayla Lee	National Youth Community Center (Junior) Wonjong Kim	Recognition J0412	<i>The Effect of Screens in the Contagiousness of a Yawn</i>
Lilit Manvelyan Mariana Ekizian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J0413	<i>The Effect of Social Media on Kids Brain</i>
Reilly Maxwell	New Roads Middle School Nishat Alikhan	Recognition J0418	<i>Heart Rate</i>
Jasmine Nejat Shiloh Rosner	Temple Beth Am Pressman Academy Sam Forman	Recognition J0409	<i>What Do You See?</i>
Charlie Noggle Emma Ntanios	St. Timothy Chrisdy Novak	Recognition J0402	<i>The Art of Youthful Fears</i>
Liliana Polk Kyleigh Butler	New Roads Middle School Nishat Alikhan	Recognition J0423	<i>Street Smart</i>
Alexander Purut	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J0401	<i>Videogames and Reading and Their Effect on Memory</i>
Hudson Ralls	New West Charter Eric Burke	Recognition J0416	<i>Does Practice Make</i>
Sophie Salehi	Archer School for Girls (Junior) Jerilyn Neshek	Recognition J0430	<i>Reactions to Distraction: Digital Distractions Impact on Short-Term Memory</i>
Shirel Vahedifar	Temple Beth Am Pressman Academy Sam Forman	Recognition J0425	<i>Scented Sensations</i>

BIOCHEMISTRY & MOLECULAR BIOLOGY - JR J05

Lia Stepanian	Chamlan Armenian School Iida Gevorkian	First Place J0503	<i>How Does the Source (Type) of Sugar Affect the CO2 Production During Yeast Fermentation?</i>
Patrick Liang	Portola Highly Gifted Magnet Ruth Gramajo	Second Place J0508	<i>Analyzing the Mutations in the Virus Sars-Cov-2 and the Practical Effect</i>
Audrey Barba Gabe McCormick	New Roads Middle School Nishat Alikhan	Honorable Mention J0501	<i>Gummy Bear Galore</i>
Nathaniel Lee	National Youth Community Center (Junior) Wonjong Kim	Honorable Mention J0504	<i>How Different Wavelengths of Light Affect the Efficiency of Photosynthesis Reaction and Plant Growth</i>
Cameron Lovett	St Martin of Tours School Mohammad Ashas	Honorable Mention J0507	<i>How Thirsty is Your Skin?</i>

Haley Montgomery	Walter Reed Middle School Joyann Sofio	Honorable Mention J0506	<i>Egg Substitute Chocolate Chip Cookies</i>
Batool Musallet	Institute of Knowledge Middle School Selena Khan	Honorable Mention J0509	<i>Healthier You With Vitamin C: Evaluating the Preservation of Ascorbic Acid in Culinary Processes</i>
Elodie Worden	Mark Twain Middle School Jenny Burman	Honorable Mention J0505	<i>Testing pH with Spherification</i>

CHEMISTRY - APPLIED - JR J06

Sophia Spencer	Brentwood School (Junior) Laura Feucht	First Place J0607	<i>Energy Drinks and Sugar: The Effect of the Amount of Sugar in Popular Sport Drinks.</i>
Farah Sandoval	Archer School for Girls (Junior) Jerilyn Neshek	Second Place J0609	<i>Unbe-Leaf-Able: Application of Methylcellulose Aqueous Solution to a Decellularized Spinach Leaf</i>
Alique Bardakian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Third Place J0616	<i>Cracking the Moisturizer Code</i>
Orion Fujii	Ridgecrest Intermediate School Ashley Hughes	Third Place J0612	<i>Development of an Assay Based on Captive Bubble Surfactometry</i>
Molly Gelb	Hale Charter Academy STEAM Magnet Joanne Ramirez	Honorable Mention J0610	<i>Which Metal Electrode and Electrolyte Solution Combination Will Create the Most Effecient Battery?</i>
Jordan Rowe	Science Academy STEM Magnet (Junior Division) Sarah White	Honorable Mention J0618	<i>Turning Waste Cooking Oil Into Biofuel</i>
Derev Daduryan	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J0617	<i>Freezing Water</i>
Sophia Galadjian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J0608	<i>Which Hand Lotion Works the Best</i>
Minuet Hong	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J0606	<i>Do Different Ratios of Triglyceride in Soap Affect Its Solubility?</i>
Mara Hovannisian Sophia Nalbandian Mila Festekjian	Holy Martyrs Ferrahian Middle School Sanahine Balian Chahinian	Recognition J0602	<i>Ketchup as Penny Tarnish Remover</i>
Gregory Kerikorian	Chamlan Armenian School Iida Gevorkian	Recognition J0604	<i>Does Cooking Deplete Vitamin C</i>

Caleb Lee Leland Chung	Pomona Unified School District Junior Division Bridget Gardea	Recognition J0611	<i>Flames of Survival</i>
Elijah Lee	St. Timothy Chrisdy Novak	Recognition J0614	<i>Sugar Shock!</i>
Daphne Linsangan	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J0603	<i>Cheesecake Challenge</i>
Elizabeth Poladian	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J0601	<i>Is all Water Clean? Testing the pH and Purity of Different Types of Water</i>
Aylin Wang	New Horizon School, Pasadena Leonard Elick	Recognition J0615	<i>Finding the Solution That Makes the Longest Lasting and Easiest Forming Bubbles</i>
Harry Weinstock	New Roads Middle School Nishat Alikhan	Recognition J0605	<i>The Color of Candy</i>

CHEMISTRY - GENERAL - JR J07

Ellen Hamilton	Portola Highly Gifted Magnet Ruth Gramajo	First Place J0703	<i>What Biofuel Has the Highest Energy Content</i>
Gaelle Ezadjian Gohar Aramyan	C & E Merdinian Armenian Evangelical School Silva Aviki	Second Place J0710	<i>Chemistry of Ice-Cream Making: Lowering the Freezing Point of Water</i>
Allison Leo	Sierra Madre Middle School Ravi Dev Anandhan	Second Place J0707	<i>What is the Relationship Between pH and Electrical Conductivity?</i>
Ari Armenian	Chamlian Armenian School lida Gevorkian	Third Place J0701	<i>From Berries to Electricity: Solar Cells in Nature?</i>
Ella Ayvazyan Gwendolyn Saengphaibul	Stratford School Viraji Weerasena	Recognition J0705	<i>Which Detergent Is the Best?</i>
Revel Ian Liam Colon	New Roads Middle School Nishat Alikhan	Recognition J0715	<i>Baking Soda Vinegar</i>
Ava Jones	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J0702	<i>Science Behind Slime</i>
Liliana Ponnezhan Lyla Davila Iren Tarlanian	Stratford School Viraji Weerasena	Recognition J0713	<i>What Substance Enhances 3D Scans Of Scans The Best?</i>
Melody Robinson	St. Timothy Chrisdy Novak	Recognition J0714	<i>What Shape of Ice Melts the Fastest</i>

Aydan Robledo George Fenwick Liam Shin	Stratford School Viraji Weerasena	Recognition J0708	<i>What Natural Preservatives Keep Fruit Fresh the Longest?</i>
Nicholas Shaikh	New West Charter Eric Burke	Recognition J0709	<i>Slime</i>
Rashelle Silva	Holy Angels School Araceli Galvez	Recognition J0712	<i>Spherification</i>
Blaise Smurda	St Martin of Tours School Mohammad Ashas	Recognition J0718	<i>Temperature vs pH</i>
Khoren Youssef Zohrab Youssef	Holy Martyrs Ferrahian Middle School Sanahine Balian Chahinian	Recognition J0719	<i>Hard Water vs Soft Water</i>
EARTH / SPACE SCIENCES - JR J08			
Dia Raj	Hale Charter Academy STEAM Magnet Joanne Ramirez	First Place J0801	<i>Which Biodegradable Hydrogel Helps Conserve Water the Best?</i>
Jackson Rutner	Science Academy STEM Magnet (Junior Division) Sarah White	Second Place J0812	<i>Tidal Trouble</i>
Benjamin Kuzoyan	La Canada Preparatory School Steve Miller	Third Place J0808	<i>Solar Power</i>
Beauden Torretores	Incarnation Parish School Anna Anderson	Honorable Mention J0811	<i>Saltwater To Freshwater Using Solar Power</i>
Eliel Amekugee	Magnolia Science Academy 6 Sarah Kim	Recognition J0803	<i>Electro Granite</i>
Zarapheena Breinberg	Mark Twain Middle School Jenny Burman	Recognition J0805	<i>Crystal Making</i>
Michael Galadjian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J0802	<i>How Does Soil Affect Fossilization</i>
naima holmes	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J0804	<i>Hydro-gel: Unleashing the Implications of Water for Plant Growth and Development</i>
Omkar Kanse	Mountain Avenue Elementary School Ben Kwan	Recognition J0810	<i>How Space Technology Can Help Reduce Climate Change?</i>
Noelle Ledesma Natalya Grigorian	Holy Martyrs Ferrahian Middle School Sanahine Balian Chahinian	Recognition J0806	<i>Electromagnets</i>

Charlotte Monzon-white	St. Timothy Chrisdy Novak	Recognition J0807	<i>What Natural Material Filters Dirty Water the Best?</i>
Josué Smith	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J0809	<i>A Strong Pull</i>
ECOLOGY - JR J09			
Ione McLain	Science Academy STEM Magnet (Junior Division) Sarah White	First Place J0906	<i>How Does Air Quality Relate to Home Values, Family Income, Demographics, School Rating and Performance, and Pollution Burden?</i>
Talia Boghossian	Chamlan Armenian School lida Gevorkian	Second Place J0910	<i>Do not Worry About Plastic, We Have Worms!</i>
Allison Lee Juliana Ko	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Third Place J0903	<i>Biodegradable Bread Tag</i>
Beatrice Santamaria	Incarnation Parish School Anna Anderson	Honorable Mention J0916	<i>Global Worming</i>
Arina Vahramyan	La Canada Preparatory School Steve Miller	Honorable Mention J0915	<i>Just Water Under the Bridge?</i>
Charles Wittnebel	St Martin of Tours School Mohammad Ashas	Honorable Mention J0912	<i>Testing Soil Lead Levels Near and Around Santa Monica Airport</i>
Sophie Herbert	Archer School for Girls (Junior) Jerilyn Neshek	Recognition J0917	<i>Iron You Mad plron You Mad Planaria Are Struggling: How Heavy Metals Impact Planarian Regenerationlanaria are struggling: How Heavy Metals Impact Planarian Regeneration</i>
Ariel Hopenstand	Temple Beth Am Pressman Academy Sam Forman	Recognition J0904	<i>Climate Change Is No Drop in the Ocean</i>
Mustafa Ibrahim	Institute of Knowledge Middle School Selena Khan	Recognition J0905	<i>Crystal Clean Water: A Comparative Analysis of Solar Water Purification and Homemade Filtration Systems for Accessible Clean Drinking Water</i>
Asad Imran	Al-Huda Islamic School Rula Alshanableh	Recognition J0907	<i>The Effect of Elevation on Air Quality.</i>

Mithra Karthik	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J0901	<i>Can Aquatic Plants Help Stop Global Warming?</i>
Liam Sacino	Incarnation Parish School Anna Anderson	Recognition J0909	<i>One Man's Trash Is Another Man's Treasure</i>
Yuri Song	Archer School for Girls (Junior) Jerilyn Neshek	Recognition J0914	<i>Organic vs. Inorganic: The Effect of Organic Soap on Algae Growth</i>
Zainab SyedaHashmi	Institute of Knowledge Middle School Selena Khan	Recognition J0902	<i>Disappearing Act: Evaluating the Degradation of Biodegradable and Compostable Materials in Soil Composting Systems</i>

ENGINEERING APPLICATIONS - JR J10

Paria Vahdat	Science Academy STEM Magnet (Junior Division) Sarah White	First Place J1003 Split group: A	<i>Creating An Environmentally Conscious Approach to Solar Heating For Houses</i>
Heather Choi	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	First Place J1044 Split group: B	<i>Smart Waste Bin</i>
Mary Tomooka	St. Monica Academy Sorab Ghandhi	Second Place J1008 Split group: A	<i>Which Bridge Will Hold the Most Weight During an Earthquake</i>
Sai Tej Chikarti Chikati Gurudev Nayak	Rancho Pico Junior High School Catherine Nicholas	Second Place J1035 Split group: B	<i>Don't Sleep</i>
Madeleine Jiang	Ridgecrest Intermediate School Ashley Hughes	Third Place J1019 Split group: A	<i>Preventing Hot Car Fatalities With the Help of Technology</i>
Kevin Tang	Cedarlane Academy Jessica Gabela	Third Place J1002 Split group: A	<i>SkyEye: A Smart Helmet to Save Soldiers' Lives</i>
Anant arora	Magruder Middle School payal arora	Third Place J1026 Split group: B	<i>Human Powerd Energy Harvester</i>
Simon Oshev Evan Goodman	Science Academy STEM Magnet (Junior Division) Sarah White	Third Place J1029 Split group: B	<i>Chill Pill: A Portable, Solar- Powered Prototype for Medication Storage for the Unhoused</i>
Sahara Baligh	New Horizon School, Pasadena Leonard Elick	Honorable Mention J1005 Split group: A	<i>Making a Biodegradable Plastic Out of Algae</i>

Eden Moccia	Portola Highly Gifted Magnet Ruth Gramajo	Honorable Mention J1014 Split group: A	<i>The Future of Fast Food Containers: The Carrot</i>
Davit Abgaryan	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J1001 Split group: A	<i>Building a Nuclear Fuser and Testing Its Efficiency Compared to Traditainal Power Plant</i>
Etthan Barajas Ivan Sagastume Ethan Romero	Bell Gardens Intermediate School Catheline Merilus	Recognition J1007 Split group: A	<i>Lean Back</i>
Kenzo David	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1023 Split group: A	<i>Does Magnet Strength Affect a Maglev's Speed</i>
Jordana Ferman Charlotte Zack	Temple Beth Am Pressman Academy Sam Forman	Recognition J1010 Split group: A	<i>How Do High Heels Affect Bone and Muscle</i>
Samia Halari	New Horizon School, Pasadena Leonard Elick	Recognition J1006 Split group: A	<i>Making a Kidney Model That Demonstrates How a Kidney Functions</i>
Arianna Hernandez Sophie Flores	Bell Gardens Intermediate School Catheline Merilus	Recognition J1009 Split group: A	<i>Conductivity Chronicles</i>
Scarlett Hernandez Tiffany Rivera	Bell Gardens Intermediate School Catheline Merilus	Recognition J1018 Split group: A	<i>Let's Go For a Ride</i>
Luke Lau	Assumption of the Blessed Virgin Mary, Pasadena Patrick Boldt	Recognition J1017 Split group: A	<i>How Fast Can a Robot React to Light?</i>
Ethan Padilla Maribel Hernandez Jessie Navarro	Bell Gardens Intermediate School Catheline Merilus	Recognition J1022 Split group: A	<i>Show Me the Money</i>
Ramsey Sani	New Horizon School, Pasadena Leonard Elick	Recognition J1004 Split group: A	<i>Designing a Homemade Hydroponics Tower</i>
Kaylee Warren	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1011 Split group: A	<i>How Does Wing Shape Affect Paper Airplane Flight?</i>
Luis Barron	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J1038 Split group: B	<i>Does the Amount of Time a Charge Cycle Is Conducted Affect a Leyden Jar's Energy Capacity?</i>

PETER ARIEL CHI	Oak Hills Elementary School Jarrod Henry	Recognition J1041 Split group: B	<i>Shoes That See</i>
Kiana Choi Hanna Pak	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1045 Split group: B	<i>Windshield Wipers for Eyeglasses</i>
Lani Cravens Savanna Dizon	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1039 Split group: B	<i>Palm Tree Climbing Robot</i>
Arpi Hokhikyan	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J1024 Split group: B	<i>Fuel of the Future</i>
Luca Jarjoura	New Roads Middle School Nishat Alikhan	Recognition J1037 Split group: B	<i>Pedal to Power</i>
Irene Kwon Mariella Rosalado	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Recognition J1027 Split group: B	<i>Automated Plant Watering System</i>
Jordin Luciano Nathan Nguyen	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Recognition J1028 Split group: B	<i>Solar Powered Car</i>
Josie Maciel	Oak Street Tk-8 School Lineth Orellana	Recognition J1046 Split group: B	<i>Hydraulic Elevator</i>
Anthony Ramirez Jayden Correia	Bell Gardens Intermediate School Catheline Merilus	Recognition J1030 Split group: B	<i>The Quicker Sucker Upper</i>
Michelle Raso Santos Javier Pichardo Sophie Paez	Bell Gardens Intermediate School Catheline Merilus	Recognition J1031 Split group: B	<i>Resilient Residence</i>
Sagi Satria	New Horizon School, Pasadena Leonard Elick	Recognition J1034 Split group: B	<i>Remote Controlled Homemade Electric Skateboard</i>
Bryana Siguenza Heidy Palacios	Bell Gardens Intermediate School Catheline Merilus	Recognition J1042 Split group: B	<i>Rising Waters Rising Problems</i>
ENGINEERING RESEARCH - JR J11			
Zoya Qureshi	La Canada Preparatory School Steve Miller	First Place J1116	<i>A Novel Desalination Method</i>

Wesley Hsu Andrew Chan Crystal Gu	Ridgecrest Intermediate School Ashley Hughes	Second Place J1107	<i>Using Design of Experiments to Optimize Paper Helicopter Flight Time</i>
Austin Escandon	Pomona Unified School District Junior Division Bridget Gardea	Third Place J1117	<i>Driving on the Color Spectrum</i>
Juliette Aceves	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1119	<i>Robo-P-Finder</i>
Zoher Aljabi	Institute of Knowledge Middle School Selena Khan	Recognition J1124	<i>Air Squad! Examining the Impact of Payload Mass on Drone Battery Performance</i>
Melanie Campos Kloe Combs Sylvia Cervantes	Bell Gardens Intermediate School Catheline Merilus	Recognition J1112	<i>Safe Havens</i>
Cory Collins-Lopez	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J1101	<i>How AI can Make Video Game Development Faster and More Immersive</i>
Arthur Hekimyan David Melkonyan	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J1125	<i>Under the Sea</i>
Kenny Jones	Palos Verdes Intermediate School Ashley Hughes	Recognition J1109	<i>The Future of Cross Laminated Timber (CLT) in the United States</i>
Margaux Lane	Science Academy STEM Magnet (Junior Division) Sarah White	Recognition J1126	<i>Measuring the Strength of Different I-Beam Types</i>
Keira Lasky	Walter Reed Middle School Joyann Sofio	Recognition J1108	<i>Cars Enlighten Me</i>
Ruben Lavi	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J1105	<i>Why Are Airplanes So Over Engineered?</i>
Elena Odorczuk	Pomona Unified School District Junior Division Bridget Gardea	Recognition J1121	<i>Materials Reducing Noise Pollution</i>
Ellie Paik	Portola Highly Gifted Magnet Ruth Gramajo	Recognition J1102	<i>Creating an Efficient Air Conditioner</i>
Sara Schneider Georgia Avakian	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J1120	<i>Solar Powered Irrigation System</i>
Olivia Sherman Nina Norwood	Cathedral Chapel School Donielle Mitchell	Recognition J1104	<i>Building a Ferris Wheel</i>
Aarav Sonawane	Oak Hills Elementary School Jarrod Henry	Recognition J1110	<i>How Has Technology Impacted Diabetes Management?</i>

ENVIRONMENTAL MANAGEMENT - JR J12

Edwin Chung	Portola Highly Gifted Magnet Ruth Gramajo	First Place J1215	<i>What's In Your Water</i>
Allen Torosyan	La Canada Preparatory School Steve Miller	Second Place J1224	<i>Black Soldier Fly Larvae can Reduce Greenhouse Gas and Deliver Protein and Fertilizer</i>
Tanmay Yenugonda	Hale Charter Academy STEAM Magnet Joanne Ramirez	Second Place J1206	<i>Harnessing Eco-Friendly Nano-Emulsions to Prevent Ocean Oil Spills</i>
Ryan Sarkeshik	Portola Highly Gifted Magnet Ruth Gramajo	Third Place J1227	<i>Global Warming Mitigation: Optimizing CO2 Removal of Algae Farming</i>
Vivek Arunachalam	Mountain Avenue Elementary School Ben Kwan	Honorable Mention J1210	<i>Water Filter Using Organic Materials</i>
Payton Atkins	St. Timothy Chrisdty Novak	Honorable Mention J1221	<i>Water Purification</i>
Ava Barrios	Sierra Madre Middle School Ravi Dev Anandhan	Honorable Mention J1226	<i>Vermicomposting vs Hot Composting</i>
Abdullah Murad	Al-Huda Islamic School Rula Alshanableh	Honorable Mention J1213	<i>Soak It Up! Which Material Best Cleans an Oil Spill From Water.</i>
Ivy Park	Walter Reed Middle School Joyann Sofio	Honorable Mention J1225	<i>Keep the Ice Rink Cool!</i>
Max Pestes Isaac Sapire	Science Academy STEM Magnet (Junior Division) Sarah White	Honorable Mention J1217	<i>Extracting Microplastics From Water Using Varying Amounts, Types and Consistencies of Mucilage.</i>
Vinay Rao Justin Chiu	Sierra Madre Middle School Ravi Dev Anandhan	Honorable Mention J1204	<i>How Does the Distance From the I-210 Freeway Impact Air Quality?</i>
Arumin Ravisankar	Oak Hills Elementary School Jarrod Henry	Honorable Mention J1214	<i>Sunsync Irrigation System</i>
Raadiya Sabah	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Honorable Mention J1223	<i>Automatic Recycle Bin With a Treat</i>
Chloe Shin Jianna Chua	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Honorable Mention J1203	<i>Bio-Degradable Pads</i>
Lila Stevens	Sierra Madre Middle School Ravi Dev Anandhan	Honorable Mention J1216	<i>Can I Design a Living Roof Cover for the Average Homeowner</i>

Benjamin Waterman	St Martin of Tours School Mohammad Ashas	Honorable Mention J1218	<i>Clump of the Litter</i>
Nolan Anderson	Pomona Unified School District Junior Division Bridget Gardea	Recognition J1212	<i>Healthy Habitats</i>
Victoria Anokwute Jhune Toruno	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1202	<i>Which Accessible Tool Collects Oil the Best?</i>
Sophia Bakshian	Beverly Vista Middle School Alyssa Langevin	Recognition J1209	<i>Water Filtration</i>
Joseph Cru	Holy Angels School Araceli Galvez	Recognition J1222	<i>Water Quality Around the World</i>
Jacob Darvish Ian Yashar Jacob Asher	Beverly Vista Middle School Alyssa Langevin	Recognition J1208	<i>Finding Filters</i>
Jolie Kangarloo	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1201	<i>Can Aquatic Plants Decrease Ocean Acidity?</i>
Mitali Saini Shannon Gerety	St. Timothy Chrisdty Novak	Recognition J1205	<i>Pollution's Evolution</i>
Zachary Simon	New West Charter Eric Burke	Recognition J1211	<i>Investigating Volcanoes</i>
Anaida Tslikian Sapphire Husany	Lashon Academy Jonathan Abelson	Recognition J1207	<i>Frosty Flora</i>
Samuel Waterman	St Martin of Tours School Mohammad Ashas	Recognition J1219	<i>Extracting Oil from Water</i>
MATERIALS SCIENCE - JR J13			
Shahrzad Dardashti Evelyn kruger	Beverly Vista Middle School Alyssa Langevin	First Place J1320	<i>Powerful Power Poles</i>
Mina Kim	Incarnation Parish School Anna Anderson	Second Place J1319	<i>Fantastic Plastic</i>
Levi Sulbaek Andersen	Sierra Madre Middle School Ravi Dev Anandhan	Third Place J1306	<i>How Effective is Mitigating the Impact of Climate Change</i>
Dvin Aboulian	Chamlan Armenian School Iida Gevorkian	Honorable Mention J1305	<i>The Effect of Different Pipes on Water Quality</i>
Nahum Butag	Pomona Unified School District Junior Division Bridget Gardea	Honorable Mention J1303	<i>Which Color Absorbs the Most Light?</i>

Sanah Hashimi	New Horizon School, Pasadena Leonard Elick	Honorable Mention J1311	<i>Testing How Much Heat Turf Can Retain With and Without Friction</i>
Helena Oh	Walter Reed Middle School Joyann Sofio	Honorable Mention J1318	<i>Bending Pointe</i>
Ahmad Awawdeh	Al-Huda Islamic School Rula Alshanableh	Recognition J1316	<i>Which Material Will Block a Wi-Fi Signal the Most?</i>
Sophia Dao	Portola Highly Gifted Magnet Ruth Gramajo	Recognition J1314	<i>Radiation in Everyday Electronic Devices</i>
Max Denicke	St. Timothy Chrisdy Novak	Recognition J1302	<i>Stanley Cup Challenge</i>
Evan Grady	St. Timothy Chrisdy Novak	Recognition J1310	<i>Biodegradable Hydrogels: Better packing solution?</i>
Hadassah Hoffman	Temple Beth Am Pressman Academy Sam Forman	Recognition J1322	<i>What Type of Paper Makes a Paper Airplane Fly Best!</i>
Kamran Husaini	New Horizon School, Pasadena Leonard Elick	Recognition J1323	<i>Testing the Efficiency of Cool Roof Shingles</i>
Avneesh Koneri	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1321	<i>Which Screen Protector Blocks the Most Blue Light?</i>
Yoselin Lopez	Lashon Academy Jonathan Abelson	Recognition J1304	<i>Rock Candy Crystal Growth</i>
Elizabeth Martinez	Magnolia Science Academy 6 Sarah Kim	Recognition J1312	<i>Will It Last?</i>
Iago Parry Jonathan Shi Otto Farr Johnstone	New Roads Middle School Nishat Alikhan	Recognition J1317	<i>Hot Magnet, Cold Magnet, Strong Magnet, Weak Magnet</i>
Sena Kim & Seychelle Sellier	Incarnation Parish School Anna Anderson	Recognition J1301	<i>Seaweed Biofabrics</i>
Peter Shanoian David Martirosyan	C & E Mardinian Armenian Evangelical School Silva Aviki	Recognition J1309	<i>Simple Filtration Device- Which Filter Cleans The Best?</i>
Vlada Sokolova	Walter Reed Middle School Joyann Sofio	Recognition J1315	<i>Melted Ice and Rice</i>
Isabel Teodoro-Soto	Magnolia Science Academy 6 Sarah Kim	Recognition J1313	<i>Keep it Cool</i>

MATHEMATICS & COMPUTER SCIENCES - JR J14

Sarah Varghese	Ridgecrest Intermediate School Ashley Hughes	First Place J1415	<i>Identifying the Most Efficient Object Recognition Algorithm to Assist the Visually Impaired Using Machine Learning, Optimized for Mobile Applications</i>
Ari Tamsky	Portola Highly Gifted Magnet Ruth Gramajo	Second Place J1418	<i>Nothing Up My Sleeve: Hashing Without Secrets</i>
Pranav Arunachalam	Rosemont Middle School Suzanne Risse	Third Place J1410	<i>An Ensemble of Deep Learning Models: Detection and Classification of Diabetic Retinopathy</i>
Arnav Garg	Ridgecrest Intermediate School Ashley Hughes	Third Place J1403	<i>2.5 CNN: 2D Leveraging 2D CNNs to Pretrain 3D Models</i>
Hollie Tang	Cedarlane Academy Jessica Gabela	Third Place J1401	<i>PandaTyping: An Effortless Chinese Typing Methodology Directly Using English</i>
Dominic Ayuste	St. Timothy Chrisdy Novak	Honorable Mention J1419	<i>Weather Wisdom: Which Neural Network Predicts Weather the Best?</i>
Juliette Garvey	Sierra Madre Middle School Ravi Dev Anandhan	Honorable Mention J1408	<i>Fractals!: Does the Mandelbrot Set Get More Complicated as the Exponent of Z Increases?</i>
Lena Hill Katherine Bennett Elise Sarmiento	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Honorable Mention J1414	<i>Visual Traffic Assistant</i>
Satyajith Naidu Payasam	Rosemont Middle School Suzanne Risse	Honorable Mention J1412	<i>Operation Ouch My Stomach Hurts : Pediatric Appendicitis Detection Using Machine Learning</i>
Tvisha Premjith	Rancho Pico Junior High School Catherine Nicholas	Honorable Mention J1409	<i>Deepfake Detective</i>
Ismael Abdul-Matin	New Horizon School, Pasadena Leonard Elick	Recognition J1407	<i>Preventing Death by Blood Clot: Starting with Stented Patients</i>
Daniel Bangayan	Chaminade Middle School Phil Bangayan	Recognition J1405	<i>Planet Clicker</i>
Vem Boynerian	Chamlan Armenian School Iida Gevorkian	Recognition J1417	<i>Is There Varied Efficiency for Different Size Blocks and for Computer Performance in Roblox Studio?</i>

Rhys Fischer	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1406	<i>Can Creating an App Help Users Read Sheet Music?</i>
Chirsten Gloria Jhiliane Ibatuan Isabella Gonzalez	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Recognition J1404	<i>Arduino Car Seat Safety System to Prevent Forgotten Baby Syndrome</i>
Jacob Juneau Matthew Mansour	Miraleste Intermediate School Ashley Hughes	Recognition J1402	<i>Making AES256Bit Encryption Faster</i>
Ian Lee	Rancho Pico Junior High School Catherine Nicholas	Recognition J1420	<i>Is Your Password Strong Enough?</i>
Oliver Malin Matai Goldsmith	New West Charter Eric Burke	Recognition J1411	<i>Keyboard Layouts and Switches</i>
Cameron Paxton Adam Amante	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Recognition J1413	<i>AI Sign Language Recognizer</i>

MICROBIOLOGY - JR J15

Eytan Assuied	Lashon Academy Jonathan Abelson	First Place J1510	<i>Will Sourdough Starter Density Decrease When Ambient Temperature Rises?</i>
Maya Kurc	Archer School for Girls (Junior) Jerilyn Neshek	Second Place J1504	<i>I've Got Your Bac: What Part of the Bathroom Has the Most Bacteria?</i>
Olivia Avila	Arroyo Seco Museum Science Magnet Laura Griffith	Third Place J1501	<i>Beauty and The Beast: Bacteria in Makeup Testers</i>
Jayden Park Aiden Kim	Science Academy STEM Magnet (Junior Division) Sarah White	Honorable Mention J1507	<i>What is a MFC?</i>
Elle Shepela	St Martin of Tours School Mohammad Ashas	Honorable Mention J1512	<i>Clean: Which Disinfectant is the Most Effective</i>
Ines Colton		Recognition J1503	<i>The Five Second Rule</i>
Maryana Kelleyan	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J1505	<i>Bacterial Growth From Disinfectants</i>
Aelaina Landeros Tessa Delfin	St. Timothy Chrisdty Novak	Recognition J1509	<i>Bacteria on Popular Sephora Product Testers</i>
Kavya Vidya Murali	Portola Highly Gifted Magnet Ruth Gramajo	Recognition J1508	<i>Rhizophagus Irregularis and Soybean Germination</i>

Arnika Nasiri	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J1506	<i>What Is the Effect of Antibiotics on Gram-Positive and Gram-Negative Bacteria?</i>
Sophia Pineda	Assumption of the Blessed Virgin Mary, Pasadena Patrick Boldt	Recognition J1502	<i>Bacteria at School: Where Are They Now?</i>
Mikaela Smith Isabelle Vergara	Holy Angels School Araceli Galvez	Recognition J1511	<i>Bacteria vs. Soap</i>

PHARMACOLOGY - JR J16

Jaqueline Mayne	Archer School for Girls (Junior) Jerilyn Neshek	First Place J1606	<i>AMP Up the Bacterial Resistance; How does Ampicillin and Bacteriophage T4 Impact Antibiotic Resistant E.coli</i>
Jaya Srinivasan	Archer School for Girls (Junior) Jerilyn Neshek	Second Place J1604	<i>Rise of Resistance: Influence of Natural vs. Prescribed Antibiotics on E. coli</i>
Asha Parry	Archer School for Girls (Junior) Jerilyn Neshek	Third Place J1603	<i>PD Investigation: The Effects Over-The-Counter Medications (Apigenin, Dopamine and Fisetin) Have on Reducing Parkinson's Disease Symptoms Over Time</i>
Ani Chalian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J1605	<i>Radical Rescue: Vitamin C Face-Off</i>
Arjun Mohindra	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1602	<i>What is the Effect of Red Bean Essence and Snail Mucin on Skin Like Substances</i>
Jasel Pemba	Walter Reed Middle School Joyann Sofio	Recognition J1601	<i>Dissolving Aspirin Faster</i>

PHYSICS - AERODYNAMICS/HYDRODYNAMICS - JR J17

Evan Friedman	Rancho Pico Junior High School Catherine Nicholas	First Place J1714	<i>Foward Swept Wing Aircraft</i>
Henry Stuart	Walter Reed Middle School Joyann Sofio	Second Place J1709	<i>Reducing Noise Pollution Underwater</i>
Shayla Varandmal	Pomona Unified School District Junior Division Bridget Gardea	Third Place J1712	<i>Model Rockets: Fin Lengths</i>
Abdellah Amirouche	Al-Huda Islamic School Rula Alshanableh	Recognition J1710	<i>Which Paper Plane Design Travels the Furthest.</i>

Kai Brown	Ridgecrest Intermediate School Ashley Hughes	Recognition J1702	<i>Designing a Commuter Car to Optimize Aerodynamic Efficiency and EMPG</i>
Anderson Gomez	Magnolia Science Academy 6 Sarah Kim	Recognition J1707	<i>Free Fall!!</i>
Calvin Jones	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J1708	<i>What Is the Most Efficient Propeller Design?</i>
Max Kristensen	Mark Twain Middle School Jenny Burman	Recognition J1716	<i>Does Water Temperature Impact Charles' Law?</i>
Adam Naseer	Institute of Knowledge Middle School Selena Khan	Recognition J1701	<i>Efficiency at Its Finest: Investigating Factors Influencing Wind Turbine Performance</i>
Anders Owen		Recognition J1713	<i>Helium Soccer Ball</i>
Meet Saini	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J1706	<i>The Epic Catapult!</i>
Aram Sarkisyan	Portola Highly Gifted Magnet Ruth Gramajo	Recognition J1703	<i>How Does the Mpemba Effect Work</i>
Diego Sturcke	Oak Hills Elementary School Jarrod Henry	Recognition J1711	<i>Air Powered Fun</i>
Jeffrey Vodnoy	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J1704	<i>How Different Balls' Velocity Are Affected by a Pitching Machine</i>

PHYSICS - ELECTRICITY & MAGNETISM - JR J18

Emily Park	Walter Reed Middle School Joyann Sofio	First Place J1801	<i>Magnets and Temperature</i>
Shivam Aggarwal	Rancho Pico Junior High School Catherine Nicholas	Second Place J1805	<i>Electricity From Freezing Water</i>
Sophia Martin	Chamlian Armenian School Iida Gevorkian	Third Place J1806	<i>Electromagnetic Fields Emitted From Different Electric Vehicles</i>
Waleed Dadabhoy	Institute of Knowledge Middle School Selena Khan	Honorable Mention J1817	<i>Chill Tech: Innovative Cooling Solutions for High-Performance Mobile Computing</i>
Jack Egan	St Martin of Tours School Mohammad Ashas	Honorable Mention J1815	<i>Maglev Trains</i>

Aleksander Ajamian	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J1804	<i>How Does a Maglev Train Stop?</i>
Nareh Arakelyan	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Recognition J1809	<i>How Much Voltage Does a Battery Use to Operate an Object?</i>
Sierra Barrack	St Martin of Tours School Mohammad Ashas	Recognition J1810	<i>Strength of an Electromagnet</i>
Adam Barsamian	Incarnation Parish School Anna Anderson	Recognition J1808	<i>Solar Madness!</i>
Natalie Conde Osorio	Magnolia Science Academy 6 Sarah Kim	Recognition J1818	<i>Light Up the Night</i>
Colton Engle	St. Timothy Chrisdy Novak	Recognition J1813	<i>How Time Affects Solar Energy</i>
Emilia Gonzales Samantha Ayala Grecia Bonilla	Pomona Unified School District Junior Division Bridget Gardea	Recognition J1807	<i>Bright Lights</i>
Ashley Kim Sophie Vizcarra	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	Recognition J1811	<i>Solar-Powered Bus Stop Lights</i>
Liam O'Brient	Turning Point School matthew kline	Recognition J1816	<i>Unraveling the Shape of DNA - An Optical Scale Model of X-Ray Diffraction for Biological Molecules</i>
Jacob Quire	Mark Twain Middle School Jenny Burman	Recognition J1812	<i>Self Propelled Electromagnetic Train</i>

PHYSICS - GENERAL - JR J19

Sophie Audu Noah Figueroa Charles Onuigbo	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	First Place J1907	<i>Battling Heat With Colors</i>
Aiden An	Walter Reed Middle School Joyann Sofio	Second Place J1912	<i>The Reality of Corrosion - Finding a Better Way to Store Biofuel in Motor Vehicles</i>
Walker Ehrich	St Martin of Tours School Mohammad Ashas	Third Place J1911	<i>The Materials of Silence</i>
Emmerson Shepela	St Martin of Tours School Mohammad Ashas	Third Place J1915	<i>Maglev Trains</i>
Eduardo Diaz Cabrera Dominic Ramales Ponce	Magnolia Science Academy 6 Sarah Kim	Recognition J1913	<i>Toothy Spinners</i>

Skyler Enari Mya Rivera	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J1914	<i>Color Sorting Popsicle Robot</i>
Jacob Garcia Dylan Barrios	Bell Gardens Intermediate School Catheline Merilus	Recognition J1906	<i>Lets Get Kicking</i>
Robert Hamilton	Assumption of the Blessed Virgin Mary, Pasadena Patrick Boldt	Recognition J1904	<i>How Does the Viscosity of a Liquid Affect the Liquid's Ability to Reduce Friction Between Two Objects?</i>
Violet Heravi	Walter Reed Middle School Joyann Sofio	Recognition J1917	<i>The Volleyball Freefall</i>
Eitay Hilu	Lashon Academy Jonathan Abelson	Recognition J1916	<i>Does the Weight of a Toy Car Affect How Far and Fast it Goes Down a Ramp</i>
Isaac Nava	Pomona Unified School District Junior Division Bridget Gardea	Recognition J1901	<i>Weight And Distance</i>
Daisy Negron	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J1909	<i>Will More Water in a Bottle Rocket Cause It to Fly Higher?</i>
Devereaux Trazo Carter Polk	Assumption of the Blessed Virgin Mary, Pasadena Patrick Boldt	Recognition J1908	<i>Lunatic Loops</i>
Luis Yac-Ramirez	Magnolia Science Academy 6 Sarah Kim	Recognition J1902	<i>Catapult Catch</i>

PLANT BIOLOGY & PHYSIOLOGY - JR J20

Aiden Torres Maty Ordonez	Rudecinda Sepulveda Dodson Gifted Magnet School Teresa Aki	First Place J2002	<i>How BPM Can Affect Lima Bean Plant Height</i>
Moses Kaplan	Portola Highly Gifted Magnet Ruth Gramajo	Second Place J2027	<i>Testing the Oxygen Produced by Photosynthesis of Cyanobacteria Under Simulations of Synthetic Environmental Issues</i>
Sandana Namasivayam	Miraleste Intermediate School Ashley Hughes	Second Place J2012	<i>The Effects of Carbon Fertilization Recreated Domestically on the Phaseolus vulgaris Plant</i>
Paige Kutash	Walter Reed Middle School Joyann Sofio	Third Place J2017	<i>How Much is CO??? Much?</i>
Natharie De Silva	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Honorable Mention J2011	<i>The Effect of Greywater on The Growth Rate of Vigna radiata</i>

Eitan Elias	Temple Beth Am Pressman Academy Sam Forman	Honorable Mention J2025	<i>Nature's Thermostat: Unmasking Temperature's Power Over Fruit Ripening</i>
Declan Greaney	Pomona Unified School District Junior Division Bridget Gardea	Honorable Mention J2014	<i>Does Gravity Affect Plant Growth?</i>
Michelle Markarian	C & E Merdinian Armenian Evangelical School Silva Aviki	Honorable Mention J2035	<i>Gardening Without Soil: Hydroponics</i>
Abby Munoz	Lashon Academy Jonathan Abelson	Honorable Mention J2021	<i>Hydroponics & pH</i>
Rimon Sayegh	St. Gregory A. & M. Hovsepian School Shakeh Haroutiounian	Honorable Mention J2028	<i>Snap to Survive</i>
Fatimah Alameddine	Institute of Knowledge Middle School Selena Khan	Recognition J2003	<i>The Benefit of the Basic: Comparative Analysis of Mineral Supplements and Chemical Fertilizer Impact on Plant Growth</i>
Olivia Ball	Portola Highly Gifted Magnet Ruth Gramajo	Recognition J2023	<i>Radioactive Radishes?</i>
Jaida Barroga	Pomona Unified School District Junior Division Bridget Gardea	Recognition J2022	<i>Rapid Responses</i>
Olive Chambliss	New West Charter Eric Burke	Recognition J2001	<i>Plant and Light Project</i>
Suri Dardashti Audrey Rosenfeld	Beverly Vista Middle School Alyssa Langevin	Recognition J2030	<i>How to Store Strawberries</i>
Elizabeth Gigliotti	St Martin of Tours School Mohammad Ashas	Recognition J2032	<i>Algae v.s Acid Rain</i>
Ashar Hanif	New Horizon School, Pasadena Leonard Elick	Recognition J2031	<i>Hydroponics v. Soil Growth</i>
Armen Khatchadourian	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J2008	<i>Fruit DNA Extraction</i>
Miro Khemichian	Chamlian Armenian School lida Gevorkian	Recognition J2016	<i>Can Hydrogels Help Conserve Water In Farming</i>
Layla Lyon	New Horizon School, Pasadena Leonard Elick	Recognition J2026	<i>Testing the Rate of Photosynthesis Using Different Household Ingredients</i>

Madelaine Marks	Beverly Vista Middle School Alyssa Langevin	Recognition J2004	<i>Growing Beans, What is the Best Type of Water?</i>
Shivani Mohindra Sophia Perez	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J2009	<i>How Do Eggshells Affect the Growth of Husky Cherry Red Tomatoes?</i>
Lauren Park	Ridgecrest Intermediate School Ashley Hughes	Recognition J2024	<i>The Significance of Air-Pressure in Growing Plants</i>
Sofie Park	St Martin of Tours School Mohammad Ashas	Recognition J2005	<i>Compost Concentration vs. Growth of Plants</i>
Araceli Prasarttongosoth	Sierra Madre Middle School Ravi Dev Anandhan	Recognition J2006	<i>How Do Different Amounts of Coffee Affect the Growth of Cabbage Plants?</i>
Cleopatra Roberts Richards	Rudecinda Sepulveda Dodson Middle School Wilmer Sarmiento	Recognition J2015	<i>Does Hydroponic Or Normal Plant Growth Work Best?</i>
Sarah Skolnick	Lashon Academy Jonathan Abelson	Recognition J2036	<i>Best Way to Wash Strawberries</i>
Nia Smith Goldie Kaplan Annabella Zhang	New Roads Middle School Nishat Alikhan	Recognition J2013	<i>Fabulous Flowers</i>
Matthew Tatoussian	Chamlian Armenian School Iida Gevorkian	Recognition J2010	<i>The Effect of Growth Hormones on Plants</i>
Karen Ter-Arsenyan	C & E Merdinian Armenian Evangelical School Silva Aviki	Recognition J2034	<i>Experiment With Genetically Modified Seeds</i>
Giana Townsley	Magnolia Science Academy 6 Sarah Kim	Recognition J2018	<i>Race of the Roots</i>
Rehan Usman	Al-Huda Islamic School Rula Alshanableh	Recognition J2029	<i>Which Type of Soil Will Help a Plant Grow Faster?</i>
Yuvanah Vignesh	Rosemont Middle School Suzanne Risse	Recognition J2020	<i>Effect of Water Temperature on Garden Plants</i>

PRODUCT SCIENCE - JR J22

kate rheinheimer Nika Honarpour	Archer School for Girls (Junior) Jerilyn Neshek	First Place J2226	<i>Material vs. Matter</i>
Maryam Ahmed	Institute of Knowledge Middle School Selena Khan	Second Place J2219	<i>The Quicker Picker Upper: Environmental Sustainability Analysis of Paper Towel Absorbency</i>

Lark Avitsian	Chamlan Armenian School Iida Gevorkian	Third Place J2203	<i>Making Biofabrics From Algae</i>
Savannah Acutt Carmen Carney Posie Hexner	Archer School for Girls (Junior) Jerilyn Neshek	Honorable Mention J2221	<i>Sunny Side Up: What Effect Do Different Spfs (30, 50, 75) Have on Preventing Yeast Colony Growth?</i>
Vana Churukian	Chamlan Armenian School Iida Gevorkian	Honorable Mention J2227	<i>What Substance Purifies Water the Most</i>
Jaunyoung Kim	St Martin of Tours School Mohammad Ashas	Honorable Mention J2213	<i>Industrial Insulation Material vs. Eco-Friendly Insulation Material</i>
Adelle Pacheco	Magnolia Science Academy 6 Sarah Kim	Honorable Mention J2228	<i>Can You Open It?</i>
Zain Rangoonwala	Institute of Knowledge Middle School Selena Khan	Honorable Mention J2216	<i>Watch Out For AI: A Comparative Study of Human and AI-Generated Text</i>
Emerald Reyes	Arroyo Seco Museum Science Magnet Laura Griffith	Honorable Mention J2224	<i>Cookie Versus Chips. Which One of These Commonly Eaten Snacks Has the Most Fat in Them?</i>
Hasan Arif	New Horizon School, Pasadena Leonard Elick	Recognition J2225	<i>Natural v. Man-Made Water Filters: A Matter of Life and Death</i>
Dana Aryan	Al-Huda Islamic School Rula Alshanableh	Recognition J2202	<i>Bacteria Blender</i>
Burgundy Bowman	Mark Twain Middle School Jenny Burman	Recognition J2220	<i>Yo' Spoon</i>
Anaid Brenes	Lashon Academy Jonathan Abelson	Recognition J2204	<i>Ice Cream Bliss</i>
Amelia Cabezas Gia Prigmore Kylie Chua	Incarnation Parish School Anna Anderson	Recognition J2206	<i>Hands Down This is the Best Moisturizer: Using Gelatin Skin Models to Test Moisturizer Effectiveness</i>
Katelyn Chue	Hale Charter Academy STEAM Magnet Joanne Ramirez	Recognition J2207	<i>How Does Homemade Bioplastic Compare to LDPE Plastic?</i>
Meredith Crane	Holy Angels School Araceli Galvez	Recognition J2214	<i>Longer Lifespan for Your Batteries</i>
Makaela Dy	Holy Angels School Araceli Galvez	Recognition J2218	<i>Solar Power or Electricity?</i>

Emily Guerrero	Arroyo Seco Museum Science Magnet Laura Griffith	Recognition J2222	<i>Examining the Difference in Bacteria Found in Fast Food vs. A Mid-Tier Restaurant</i>
Josephine Le Blanc Mia Akkaraju	Archer School for Girls (Junior) Jerilyn Neshek	Recognition J2205	<i>Don't Cry Over Spoiled Milk: The Study of Bacteria Growth in Organic Pasteurized Milk, Raw Milk, and Lactaid Milk After Their Expiration Date.</i>
Dylan Linsangan	Ross Academy of Creative and Media Arts Middle School Oscar Espinoza	Recognition J2217	<i>Popcorn's Perfect Popping Point</i>
Alma Miller Adir Stuppel	Temple Beth Am Pressman Academy Sam Forman	Recognition J2211	<i>What is the Most Effective Sunscreen?</i>
Isabella Muro	Holy Angels School Araceli Galvez	Recognition J2208	<i>The Good and Bad of Toothpaste</i>
Coral O'Leary	New Roads Middle School Nishat Alikhan	Recognition J2201	<i>The Best Paper Towel Brand Is...</i>
Liam O'Neill Alex Cao Edrian Chao		Recognition J2215	<i>Analysis of Electrolyte Content in Liquid Beverages</i>
Piper Smith	Holy Angels School Araceli Galvez	Recognition J2209	<i>Home Grown or Store Bought Which is Better?</i>
Stella Stern	Temple Beth Am Pressman Academy Sam Forman	Recognition J2210	<i>Does Heat Protectant Help Protect Hair From Heat Damage?</i>
ANIMAL BIOLOGY - SR S01			
Olivia So	Harvard-Westlake School – Senior Division Nate Cardin	First Place S0105	<i>The Effect of Increased Niacin and NAD+ Concentration on Drosophila melanogaster Longevity, Motor Function, and Memory</i>
Paulina McConnell	Pasadena High School Dylan Rupel	Second Place S0106	<i>The Hunger Games: Comparing the Dietary Preferences of Invasive and Native Bird Species in Pasadena</i>
Javeria Kashif Muhammad Motala	Institute of Knowledge High School Selena Khan	Third Place S0107	<i>Adaptogens in Focus: Pharmacological Modulation of Acheta domesticus Neuronal Activity</i>
Isaac Jung Penny Smith Pressley Huie	Flintridge Preparatory School Shane Frewen	Honorable Mention S0103	<i>The Effects of Artificial Sugar on Aurelia aurita</i>

Nahum Cho	Cabrillo Marine Aquarium, City of Los Angeles Department of Brenton Spies	Recognition S0104	<i>The Effect of Adding Folic Acid in the Diets of Moon Jelly</i>
Mohuli Ganguly	La Salle College Preparatory Elizabeth Parga	Recognition S0110	<i>Understanding the Impacts of Covid-19 Spike Proteins on Induced Pluripotent Stem Cell Derived Cardiomyocytes</i>
Austin Hong Giselle Gandakusuma	Flintridge Preparatory School Shane Frewen	Recognition S0112	<i>In Vivo Study of the Effect of E. coli on A. aurita</i>
Nicholas Marek	USC East College Prep Kavitha Satya-Mohandoss	Recognition S0111	<i>Testing the Effect of Biotin on the Chitin Content and Longevity of Ghost Shrimp, Palaemon paludosus</i>
Kate Martinez	North Hollywood High School Christi Deutsch	Recognition S0102	<i>The Comparative and Synergistic Effects of Curcumin and Omega 3 Fatty Acids on Neuronal Stem Cell Regeneration Using a Planaria Model.</i>
Rita Mei	Diamond Bar High School ERIC SORENSEN	Recognition S0108	<i>Effect of Transcranial Magnetic Stimulation on the Prefrontal Lobe Shown in Delayed-Nonmatch-to-Sample Performance</i>
Zubaida Rangoonwala Zohare Jamal	Institute of Knowledge High School Selena Khan	Recognition S0109	<i>StereoSight Solutions: A Study on the Efficacy of Optical Devices on Patients with Stereopsis</i>
Michelle So	Arcadia High School Jorge Munoz	Recognition S0101	<i>A Biological Model for Chemical Defense and Self-Toxicity: Developing the Transgenic TRPA1-deficient Dalotia coriaria</i>

ANIMAL PHYSIOLOGY - SR S02

David Backer Peral	La Canada High School Jim Cartnal	First Place S0201	<i>Hot Button: Non-invasive Approach for Studying Emotion States</i>
Kaili Tseng Leila Gheysar	Palos Verdes Peninsula High School Mark Greenberg	First Place S0209	<i>Regenerative Reaction of Dugesia to Electrical Stimulation as Proxies for Human Medicine</i>
tej patel	North Hollywood High School Christi Deutsch	Second Place S0203	<i>A Novel Glucosinolate Derived Compound in Promoting Oligodendrocyte Differentiation</i>
Wesley Cheung	Cabrillo Marine Aquarium, City of Los Angeles Department of Brenton Spies	Third Place S0202	<i>Studying How Swell Sharks Behave Based on Socializing, Light Exposure, and Other Environmental Changes</i>

Hannah DeMerit	Flintridge Preparatory School Shane Frewen	Honorable Mention S0204	<i>Alteration of the Intracellular Trafficking in Alzheimer's Disease by Apolipoprotein E</i>
Chloe Chen	Brentwood School Darlene Fukuji	Recognition S0207	<i>The Power of Music as a Treatment for Neurodegenerative Diseases: Which Sinusoidal Frequencies Impact Nematodes with Dementia?</i>
Matthew Heur	La Canada High School Jim Cartnal	Recognition S0208	<i>Reduced Parietal Delta and Theta Event Related Oscillations in Alcoholics during Early Visual Processing</i>
Muhammad Junaid Usman Salman	Institute of Knowledge High School Selena Khan	Recognition S0205	<i>Neural Overdrive: Examining the Neurostimulatory Effects of Caffeine and Sugar Solutions in Crickets (Acheta domesticus)</i>
Caris Kim	Crescenta Valley High School Orenda Tuason	Recognition S0210	<i>Testing the Effects of MSG on Planaria</i>
Petrina Ong	The Webb Schools Joseph Martin	Recognition S0206	<i>Effect of Triptolide on Planarian Flatworm Regeneration</i>

BEHAVIORAL/SOCIAL SCIENCES - SR S03

Kanon Iwata	Westridge School for Girls Daniel Perahya	First Place S0315	<i>Effects of Nuclear Weapon Education for High School Students</i>
Lana Thyen	Granada Hills Charter High School Tripti Shah	Second Place S0322	<i>AI-Powered Communication Device</i>
Noelani Joo	Crescenta Valley High School Orenda Tuason	Third Place S0330	<i>Advancing the Science of Recruitment in Clinical Research Studies: Focus on AANHPI Youth</i>
Oliver Atkinson Jerry Liu Joel Solomon	La Salle College Preparatory Elizabeth Parga	Honorable Mention S0320	<i>Effects of Providing Training on Opioid Overdose and Naloxone Use to Adolescents</i>
Sasha Capatori-Poole	Archer School for Girls (Senior) Jerilyn Neshek	Honorable Mention S0332	<i>Dissecting the Dissection: A Ribbiting Comparison Between Preserved vs. Synthetic Frog Dissections</i>
Eric Gu Jolie Friedman	Brentwood School Darlene Fukuji	Honorable Mention S0308	<i>Telebot</i>

Kay Huang	San Marino High School Ann Leong	Honorable Mention S0316	<i>Explaining Opinion Dynamics in Online Social Media: A Comparison of Attitudes to Climate Change Across States of the United States</i>
Lena Wen	Palos Verdes Peninsula High School Mark Greenberg	Honorable Mention S0317	<i>Evaluation of Pre-Surgical Bariatric Candidates Using a Psychometric Measure to Identify Appropriate Candidacy</i>
Mishka Aswani	Brentwood School Darlene Fukuji	Recognition S0318	<i>Impact of Playing a Musical Instrument on Children</i>
Omar Azzawi	Institute of Knowledge High School Selena Khan	Recognition S0319	<i>Framing Opinions: The Power of Words in Changing Perspective</i>
Aleek Babahakian Zoe Zograbian	Rose and Alex Pilibos Armenian High School Jacque Mishler	Recognition S0324	<i>Does Sugar Consumption Affect Cognitive Functions</i>
Adam Baha	Institute of Knowledge High School Selena Khan	Recognition S0313	<i>The Nature of Human Willpower: Examining Lay Theories of Self-Control and Their Impact on Ego Depletion</i>
Isaac Barba Diego Acuna	Don Bosco Technical Institute Joma Jenkins	Recognition S0307	<i>How Do People With Different Fitness Levels Respond to Exercise</i>
Zimo Chen Jingming Wang Evelyn Kung	Walnut High School Garrett Lim	Recognition S0333	<i>Unraveling the Genetic and Environmental Threads: Mapping the Pathways to Depression and Suicidal Ideation</i>
Lauren Cheng	Diamond Bar High School ERIC SORENSEN	Recognition S0329	<i>Born to be Hyper? The Genetic Influence on ADHD</i>
Arianna Galvez	Schurr High School Myriam Islas	Recognition S0303	<i>"Does Color Affect Taste?"</i>
Gianna Gullon Avery Aldoroty	Pasadena High School Dylan Rupel	Recognition S0325	<i>Not Sponsored: Exploring Effects of Parasocial Interaction With Branded Content</i>
Emily Hernandez	Archer School for Girls (Senior) Jerilyn Neshek	Recognition S0301	<i>Shining a Light on Epilepsy: How Different Frequencies of Light Can Exacerbate Seizures in Bang-Sensitive Drosophila melanogaster</i>

Irene Kim	Crescenta Valley High School Orenda Tuason	Recognition S0314	<i>Analysis of the Addictive Potential of Piper methysticum Through Model Organism Drosophila melanogaster</i>
Hannah Lee	West Ranch HS William Hughes	Recognition S0321	<i>How Psychological Conditions Shape Moral Expressions: Analyzing Journalistic Writing to Prevent and Treat Patients with Suicidal Intent</i>
Adrienne Matossian	La Salle College Preparatory Elizabeth Parga	Recognition S0302	<i>Relationship Between Depression Scores and Social Media Usage in Teenagers</i>
Ani Pogosian	Holy Martyrs Ferrahian High School Sanahine Chahinian	Recognition S0304	<i>Pavlov's Dog</i>
Christian Rios Briana Martin	Pioneer High School Matthew Murray	Recognition S0306	<i>How Does Mirrored Imagery Affect a Persons Proprioception?</i>
Joshua Silva	Morningside High School Maureen La Rouché	Recognition S0309	<i>Aberrant Grey Matter in Murderers</i>
Riley Tanada Jaedon Vo Seth Guerrero	Don Bosco Technical Institute Joma Jenkins	Recognition S0331	<i>Exploring the Impact of Blue Light Exposure From Devices on Sleep Variables</i>
Angelina Wu	Diamond Bar High School ERIC SORENSEN	Recognition S0326	<i>Exploring the Effects of Social Media Usage on Depression</i>
Ashton Yoon	Chadwick School Dijanna Figueroa	Recognition S0323	<i>The Shortage of Access to Therapists in Cambridge, Massachusetts in the United States: A Pandemic Study</i>
Ziyu (Maria) Zeng	Walnut High School Garrett Lim	Recognition S0312	<i>Are Males and Females the Same In Terms of Sexual Jealousy?</i>

BIOCHEMISTRY & MOLECULAR BIOLOGY - SR S04

Zachary Jones	Hart High School Jenni Jones	First Place S0417	<i>Recombinant Synthesis of Hyaluronidase With Modified IgE Binding Site for the Purpose of Reduced Allergenicity</i>
Andrew Huang	The Webb Schools Joseph Martin	Second Place S0401	<i>Self-assembling Chimeric Polypeptides as Drug Carrying Nanoparticles for Anti-cancer Chemotherapy</i>

Vinayan Tiruvellore Gautham Korrapati	Academy of the Canyons Middle College High School Mike Koegle	Third Place S0403	<i>From Bytes to Breaths: Battling Pulmonary Fibrosis With Machine Learning</i>
William Corry	Palos Verdes High School Julie Munoz	Honorable Mention S0410	<i>CD38 Identifies a Subset of Natural Killer Cells With Differential Phenotype and Function</i>
Lena Peresztegi Anna Peti-Peterdi	Palos Verdes High School Julie Munoz	Honorable Mention S0402	<i>Development and Applications of a Novel High Throughput Screening Assay to Identify a New First-In-Class Therapy for Kidney Disease</i>
Mir Saif Ali Emad Parekh	Institute of Knowledge High School Selena Khan	Recognition S0416	<i>Silent Signals: A Quantitative Structure- Activity Relationship Analysis (QSAR) of Endocrine-Disrupting Chemicals in Consumer Items</i>
Liwen Cheng	Harvard-Westlake School – Senior Division Nate Cardin	Recognition S0405	<i>Click Chemistry-Mediated Enrichment of Circulating Tumor Cells for Noninvasive Detection of Differentiated Thyroid Cancer</i>
Claire Dokko	Palos Verdes Peninsula High School Mark Greenberg	Recognition S0418	<i>Developing Tools to Study the Function of ACTN3 in Muscle Stem Cells and Their Differentiated Derivatives</i>
Loc Handke	IEA Institute for Educational Advancement Monica Barsever	Recognition S0412	<i>Designing Novel Binders for LAG3 Receptors on T- Cells for Cancer Immunotherapy</i>
Zia Karakachian Sofia Akopyan	Holy Martyrs Ferrahian High School Sanahine Chahinian	Recognition S0414	<i>Sippin' on Sugar</i>
Talar Khayalian Vanna Davtyan	Rose and Alex Pilibos Armenian High School Jacque Mishler	Recognition S0409	<i>A Functioning Lung</i>
Maria Lemus	Pioneer High School Matthew Murray	Recognition S0408	<i>CRISPR Experiment</i>
Hyunjoon Noh Barron Yang	Gretchen Whitney High School Nitta Song	Recognition S0419	<i>Breaking the Mold: The Promise of Plant Based Plastic in a Sustainable Future</i>

Lia Osipyan	Palos Verdes Peninsula High School Mark Greenberg	Recognition S0413	<i>A Novel Protein Post-translational Modification Inhibitor as a Potential Therapeutic Target for Lung Carcinoma</i>
Camila Rivera Ieslie Sanabria	Magnolia Science Academy 4 (Senior Division)) Christopher Marten	Recognition S0415	<i>Blood Scene</i>
Ava Simpson		Recognition S0404	<i>"Optimizing ColloVine™-MA: Determining the Efficiency of the Collagen Methacrylation Reaction via the Fluorescamine Assay</i>
Lucas Solares Joel Korah Shoaib Pasha	Chatsworth Charter High School & G+STEAM HS Sareen Tashjian	Recognition S0406	<i>Dissecting Digestive Efficacy in GMO and Non-GMO Crops Through Enzymatic and Phytochemical Analysis</i>
Caleb Tsai	El Segundo High School Megan DeLong	Recognition S0411	<i>A Meta-Analysis of Genes Associated with Myasthenia Gravis</i>
CHEMISTRY - SR S05			
Ruotong Gao	The Webb Schools Joseph Martin	First Place S0519	<i>Novel Stretchable Laser-Induced Graphene Elastomeric Sensor Array for Human Stress Monitoring Through a Portable Novel Electrochemical Testing Device</i>
Zhehao Zhang	The Webb Schools Joseph Martin	Second Place S0522	<i>Effort Towards the Total Synthesis of Crotocascarin K: A Fragment Coupling Approach</i>
Karina Kruger Sarah Zhang	Beverly Hills High School Michael Sherman	Third Place S0510	<i>Harvesting Hope: Innovations in Food Preservation for Famine Resilience</i>
Joey Balcom Ethan Sung Akira Yoshihara	Palos Verdes High School Julie Munoz	Honorable Mention S0521	<i>Analyzing the Effects of Reductive Dehalogenase Homologous Protein A6 on Perfluorooctanesulfonic Acid</i>
Jonah Nazarian	Brentwood School Darlene Fukuji	Honorable Mention S0508	<i>Advancing Energy Storage: Sustainable Moldable Batteries with PVA and Rechargeable Copper Zinc Cells</i>
Xiomara Zamacona victoria ortegon Jordan Ramirez	Pioneer High School Matthew Murray	Honorable Mention S0511	<i>Which Hair Kind Absorbs Oil Out of Water the Best?</i>

Brandon Barbre	Morningside High School Maureen La Rouché	Recognition S0520	<i>Research Topic: Electrolytes and Exercise Experimental Topic: Electrolyte Challenge: Orange Juice Vs. Sports Drink</i>
Nayira Jamkosian Milan Samarghachian Danielle Harutunian	Holy Martyrs Ferrahian High School Sanahine Chahinian	Recognition S0514	<i>Luminol</i>
Nancy Maldonado	Schurr High School Myriam Islas	Recognition S0512	<i>Can Liquids Cause Tooth Decay?</i>
Renata Martinez Paz Allison Contreras	Pomona Unified School District Senior Division Bridget Gardea	Recognition S0523	<i>Speeding Up Electrolysis</i>
Dalila Melgar Harry Zhang	AESA STEM Academy Sona Juharyan	Recognition S0517	<i>Vapor Pressure and Enthalpy of Vaporization of Water</i>
Kimberly Molina	Schurr High School Myriam Islas	Recognition S0518	<i>The Secret to Flowers Long Life</i>
Anthony Papazian	Holy Martyrs Ferrahian High School Sanahine Chahinian	Recognition S0503	<i>Electrolyte Challenge</i>
Ariana Ruiz Marcel Contreras	Pioneer High School Matthew Murray	Recognition S0513	<i>No More Dead Zones!!</i>
Kira Smith Anahit Yesayan	AESA STEM Academy Sona Juharyan	Recognition S0515	<i>Study of Kinetics of a Reaction</i>
Candice Tang	The Webb Schools Joseph Martin	Recognition S0505	<i>Chloride's Effect on the Water Absorption Ability of Microcrystalline Cellulose Based Hydrogel</i>
Jeremy Ting	Mira Costa High School Ernesto Nodado	Recognition S0506	<i>Are Electrolyte Powders Worth the Hype?</i>
Dominique Vasquez Logan Robles	Schurr High School Myriam Islas	Recognition S0504	<i>Cookie Chaos!</i>
EARTH / SPACE SCIENCES - SR S06			
Vanya Agrawal	Palos Verdes High School Julie Munoz	First Place S0608	<i>Celestial Symphony: MIDI Sonification of Multiparametric Supernova Data Into a Euphonious Composition</i>
Mallika Sheshadri	Pasadena High School Dylan Rupel	Second Place S0606	<i>Simulating Lyman Alpha Radiation: Insights Into Cosmic Dawn</i>

Yuping Wang Matthew Wong	Mark Keppel High School Jose Hernandez-Alvarado	Third Place S0609	<i>Determining the Shear-Wave Velocity of Southern Los Angeles</i>
Khadijah Aliuddin	Institute of Knowledge High School Selena Khan	Honorable Mention S0601	<i>Out Among the Stars: Exploring the Alien World</i>
Annie Han	Valencia High School Nanlin Han	Recognition S0607	<i>Feasibility Study of Transforming Half Dead Sea to a Freshwater Lake by Linking Nile River and Building a Free City at Four Country Intersection</i>
Colin Hwang	La Canada High School Jim Cartnal	Recognition S0604	<i>The Factors That Affect Solar Energy Production</i>
Qingcheng Yang	Sequoyah School Marc Alongi	Recognition S0603	<i>Measuring Earth's Characteristics With a Ruler</i>
ECOLOGY - SR S07			
Lea Segal	Palos Verdes Peninsula High School Mark Greenberg	First Place S0707	<i>Analysis of the Effectiveness of the Salinas de San Pedro Salt Marsh to Purify Polluted Water of Los Angeles/Long Beach Harbor</i>
Lily Arjomand	Brentwood School Darlene Fukuji	Second Place S0702	<i>Ant's Capability to Sequester Carbon Dioxide to Increase CO2 Removal in the Environment</i>
Skylar Roberts	Archer School for Girls (Senior) Jerilyn Neshek	Third Place S0705	<i>Coral's Lost Photosynthesizers: The Effect of Oxybenzone on Coral Bleaching</i>
Brandon Espinoza	North Hollywood High School Christi Deutsch	Honorable Mention S0706	<i>How Morning Glories Affect Local Invertebrate Biodiversity</i>
Aditya Kumar	Don Bosco Technical Institute Joma Jenkins	Honorable Mention S0708	<i>Priceless Purity: An Analysis of Endotoxin Levels of Waters at Various Price Points</i>
Annie Liu	La Salle College Preparatory Elizabeth Parga	Honorable Mention S0709	<i>Comparative Study of the Effects of Plant-derived and Synthetic Detergents on the Germination and Initial Growth of Mung Bean</i>
Katelyn Liu	Flintridge Preparatory School Shane Frewen	Honorable Mention S0701	<i>Correlation Between Pyrodiversity Metrics and Biodiversity: Fire Could Promote Biodiversity</i>

Josette White	Archer School for Girls (Senior) Jerilyn Neshek	Honorable Mention S0704	<i>Light It Up: The Effect of Fluorescent Thermoset Amino-Formaldehyde Polymers (~5μm) on the Behavior of Planarian Flatworms</i>
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ENGINEERING APPLICATIONS - SR S08

Xiangzhou Sun	The Webb Schools Joseph Martin	First Place S0805	<i>Gazelink: A Low-Cost Mobile Eye-Gesture Communication System With Large Language Models for People With Amyotrophic Lateral Sclerosis</i>
Zirui (Julie) Zhu	The Webb Schools Joseph Martin	Second Place S0813	<i>High-Flexibility Ankle Exoskeleton for Hemiplegic Patients Integrating Assistive and Walking Rehabilitation Functionality</i>
Rachel Lee	Crescenta Valley High School Orenda Tuason	Third Place S0826	<i>Enhancing Sustainability and Performance of Building Materials: Developing Water-Resistant Hemp-Based Concrete Bound by Magnesium Oxychloride Cement</i>
Madison Gambin	Palos Verdes Peninsula High School Mark Greenberg	Honorable Mention S0820	<i>Bioinspired, Micro-structured and Hydrophobic Surfaces for Blood-Repellent Medical Implants</i>
Athreya Sriram	Gretchen Whitney High School Nitta Song	Honorable Mention S0824	<i>Data Signal Compression With Polynomial Interpolation</i>
John Xu Ziqi Zeng	Harvard-Westlake School – Senior Division Nate Cardin	Honorable Mention S0816	<i>2nd Vision</i>
Juan Castro	Pioneer High School Matthew Murray	Recognition S0829	<i>How to Design and Build an Umbrellatron, a Solar Powered Fan Umbrella Hat.</i>
Emmanuel Garcia	Inglewood High School Luke Rey Arong	Recognition S0823	<i>DIY Rubber Band Powered Toy Car</i>
Yujun Ge	Cerritos High School Hoang Mai	Recognition S0831	<i>Ace Your Game: AI-Driven Tennis Coaching</i>
Yareli Glass Romo Amina Jimenez Clifford Jarrett	Inglewood High School Luke Rey Arong	Recognition S0808	<i>Smoke Bomb</i>

Yitzel Gutierrez	Schurr High School Myriam Islas	Recognition S0817	<i>Automatic Lock</i>
Easan Hamkins	Crescenta Valley High School Orenda Tuason	Recognition S0807	<i>Exploring BOD Estimation via Electroactive Biofilms</i>
Elison Hernandez Marquez	Morningside High School Maureen La Rouche	Recognition S0809	<i>Water Distillation</i>
Yaretzi Hernandez	Schurr High School Myriam Islas	Recognition S0828	<i>Hydraulic Systems</i>
Dylan Jiang David Sachmanyen	La Salle College Preparatory Elizabeth Parga	Recognition S0806	<i>Affordable BCI-controlled Prosthetic</i>
Emily Jimenez	Pomona Unified School District Senior Division Bridget Gardea	Recognition S0802	<i>Building a Portable Pressurized Water Tank</i>
Alvin Kim	Gretchen Whitney High School Nitta Song	Recognition S0819	<i>Peltier Modules: A Promising Technology for Cooling Systems</i>
Spencer Kosove	Brentwood School Darlene Fukuji	Recognition S0827	<i>Determining Systems of Efficient Desalination</i>
Donovan Kruger Nima Farnad Daniel Marmo	Beverly Hills High School Michael Sherman	Recognition S0811	<i>Heat for Accuracy: Designing & Testing a Heated Blood Pressure Cuff for More Accurate Results</i>
Ryan Lee	Science Academy STEM Magnet (Senior Division) Kristin Fontilea	Recognition S0830	<i>Modeling the Atlantic Maritime Trade With Physarum polycephalum Slime Molds.</i>
Hao Lin	Mira Costa High School Ernesto Nodado	Recognition S0812	<i>Intelligent Fire Risk Detection System</i>
Andrew Rodriguez Briana Villanueva	Inglewood High School Luke Rey Arong	Recognition S0822	<i>Balloon Powered Car</i>
Gilbert Shen Alex Lin Harris Song	Walnut High School Garrett Lim	Recognition S0803	<i>EcoSpector: A Novel Scout Drone for Cave Exploration</i>
Ansh Singh Jonathan Lacabe	Chatsworth Charter High School & G+STEAM HS Sareen Tashjian	Recognition S0801	<i>"Gears Aligned", Evaluating the Optimal Robot Design and Software</i>
Roman Valdepena Colin Wu Daniel Munoz	Don Bosco Technical Institute Joma Jenkins	Recognition S0821	<i>Development of a Pocket-Sized DIY Solar Panel iPhone Charger for Sustainable Portable Electronics Charging</i>

Andrea Valencia Emily Rubio	Inglewood High School Luke Rey Arong	Recognition S0818	<i>Projectile Motion</i>
Mileva Villegas Leilanni Padilla	Inglewood High School Luke Rey Arong	Recognition S0810	<i>Water Distillation Without Using Fuel or Electricity</i>
Brian Xu	Flintridge Preparatory School Shane Frewen	Recognition S0815	<i>Baseball Hitting Simulator</i>
ENGINEERING RESEARCH - SR S09			
Chrystal Duan	Harvard-Westlake School – Senior Division Nate Cardin	First Place S0920	<i>An Ultra-Stretchable Self- Powered Wearable Magnetoelastic Pressure Sensor</i>
Christine Xie	Palos Verdes High School Julie Munoz	Second Place S0903	<i>Optimizing a High Throughput Screen for Testing Therapeutics in a Novel Mouse Model of Ataxia Telangiectasia</i>
Aiden Kwon	Palos Verdes Peninsula High School Mark Greenberg	Third Place S0909	<i>Bio-Inspired Wing Design, Aerodynamic Simulation, and Autonomous Flight Test for Airborne Wind Energy</i>
Anish Anand	Palos Verdes Peninsula High School Mark Greenberg	Honorable Mention S0912	<i>A Novel System for Long- Range Wireless Power Transmission</i>
Theodore Demetriades	Kairos Prep Academy David Park	Recognition S0917	<i>NanoMax: Pioneering a New Age of Ultra- Lightweight, High-Strength Materials and Their Multifaceted Applications</i>
Avedis Ghazarian	AESA STEM Academy Sona Juharyan	Recognition S0906	<i>Firebot</i>
Edward Ghazarian	AESA STEM Academy Sona Juharyan	Recognition S0905	<i>Robotic Arm</i>
Madeline Gross	New West Charter High School Sarah Thompson	Recognition S0911	<i>Wearable Monitor to Analyze Energy Transfer of Pole Vaulting</i>
Haley Han Timothy Chen Carol Zhang	Temple City High School Jeannie Martinez	Recognition S0913	<i>O.A.S.I.S. (Ocean Aquatic Submarine Intelligence Solution)</i>
Syed Shaheer Hashmi	Institute of Knowledge High School Selena Khan	Recognition S0916	<i>PiezoElectric Power: Assessing Piezoelectric and PZT Performance in Power Generation</i>
Imani Jordan Johnae' Johnson	Inglewood High School Luke Rey Arong	Recognition S0910	<i>Grenade</i>

Jordan Kang	National Youth Community Center (Senior) Wonjong Kim	Recognition S0914	<i>Impact of Non-Biodegradable Packaging Materials on the Marine Environment</i>
Erik Mkrtchyan	AESA STEM Academy Sona Juharyan	Recognition S0904	<i>Diapole Antenna</i>
Gaston Valdez Kevin Rojas Joshua Camarillo	Don Bosco Technical Institute Joma Jenkins	Recognition S0907	<i>Degradation Fixation (A Project Used to Cut the Degradation Process in Half Without the Use of Plastic)</i>
Allison Yu	National Youth Community Center (Senior) Wonjong Kim	Recognition S0902	<i>Finding an Alternative to Harmful Household Cleaning Solutions</i>
ENVIRONMENTAL MANAGEMENT - SR S10			
Inu Cho	Palos Verdes Peninsula High School Mark Greenberg	First Place S1012	<i>Static Magnetic Field: A Novel Method of Enhancing Growth, Ammonia Filtration, and Oxygen Output in Chlorella vulgaris</i>
Neha Agrawal	Gretchen Whitney High School Nitta Song	Second Place S1021	<i>A Sticky Solution to Polystyrene Pollution: Determining the Optimal Polystyrene Product to Create the Strongest Adhesive When Dissolved in Acetone</i>
Olivia Jimenez	Pioneer High School Matthew Murray	Third Place S1022	<i>Can Swro Brine Water Be Used to Power a Desalination Plant?</i>
Karuna Lamichhane Ishita Pranav	Gretchen Whitney High School Nitta Song	Honorable Mention S1018	<i>Hybrid Purification: Integration of BioSand and Chemical Coagulation</i>
Kate North	Palos Verdes High School Julie Munoz	Honorable Mention S1004	<i>Bio-Based Skate Wheels: The Biodegradability and Durability of Starch-Based Polyols as Compared to Petroleum-Based Wheels</i>
Kshitij Purani Grigori Ananian	Chatsworth Charter High School & G+STEAM HS Sareen Tashjian	Honorable Mention S1028	<i>Integrating Vanadium Flow Battery Based Microgrid Into Digital Agriculture Frameworks</i>
Ellie Sohn	Flintridge Preparatory School Shane Frewen	Honorable Mention S1001	<i>Aurelia aurita Mucus's Percent Uptake of Polyethylene, How Oceans Could Be Cleaned</i>
Brian Alexis Alvizo Dulce Banuelos	Pomona Unified School District Senior Division Bridget Gardea	Recognition S1007	<i>How Does Plastic Affect Germination?</i>

Jonathan Chen	Diamond Bar High School ERIC SORENSEN	Recognition S1025	<i>Exploring the Role of Circular Agriculture, Specifically Organic Farming, in Greenhouse Gas Emission Mitigation</i>
Faith Fox Evan Fastoso Gabriel Howell	North Hollywood High School Christi Deutsch	Recognition S1019	<i>The Quality of Paper Made From Different Invasive Plants</i>
Ariana Garcia Ruby Perez	Pomona Unified School District Senior Division Bridget Gardea	Recognition S1017	<i>Repurpose Peels & Reduce Waste</i>
Anabelle Gonzalez	Pomona Unified School District Senior Division Bridget Gardea	Recognition S1005	<i>Fuel Cell Windmill vs. Battery Operated Windmill</i>
Jeana Hong Gavin LaBorde Sophia Anastas	Crescenta Valley High School Orenda Tuason	Recognition S1015	<i>Identification of Environmentally Sustainable Alternatives for Polypropylene Netting</i>
Ruka Ito	Palos Verdes High School Julie Munoz	Recognition S1011	<i>Sustainable Latex Extraction From Taraxacum officinale</i>
Andrew Jang	National Youth Community Center (Senior) Wonjong Kim	Recognition S1010	<i>The Impact of Climate Change on the Occurrence of Harmful Algae Blooms in California</i>
Aiden Kim	Crescenta Valley High School Orenda Tuason	Recognition S1014	<i>Evaluation of PFAS Concentration in Local Drinking Water Sources</i>
Shandra Kwok	Schurr High School Myriam Islas	Recognition S1026	<i>Down the Drain</i>
Angelina Lin	Brentwood School Darlene Fukuji	Recognition S1013	<i>Algae NanoTextiles: A Sustainable and Versatile Alginate-based Textile Infused With Nanotechnologies</i>
Sofia Luong	Chadwick School Dijanna Figueroa	Recognition S1016	<i>Effects of Varied Packaging Material on Stored Cucumis sativus</i>
Samaragye Medhasi	Gretchen Whitney High School Nitta Song	Recognition S1006	<i>Replacing CaCO3 in Stone Paper with Eggshells</i>
Nathan Pang	Crescenta Valley High School Orenda Tuason	Recognition S1020	<i>Repurposing Surfboard Materials for Effective Insulated Coolers</i>
Aiden Park	North Hollywood High School Christi Deutsch	Recognition S1029	<i>The Analysis of Particulates in Commercial Bottled Water</i>

Gray Rappoport	Palos Verdes High School Julie Munoz	Recognition S1002	<i>Creating An Optimal Oxyhydrogen Generator Through Beneficial Variable Changes</i>
Xavier Rowe	Science Academy STEM Magnet (Senior Division) Kristin Fontilea	Recognition S1027	<i>Testing the Methane Yield of Different Food Groups</i>
Ella Soh	Crescenta Valley High School Orenda Tuason	Recognition S1024	<i>Testing the Effectiveness and Practicality of Fungi in Mycofiltration Systems</i>
Bill Sun	The Webb Schools Joseph Martin	Recognition S1023	<i>Exploring the Usage of Metal Organic Frameworks for Atmospheric Water Harvesting</i>
Katia Thomas	Archer School for Girls (Senior) Jerilyn Neshek	Recognition S1009	<i>Mission Decomposition: Building a Microbial Fuel Cell for Landfill Composting</i>

MATHEMATICS & COMPUTER SCIENCES - SR S11

Hao Li	Sierra Canyon School Veronica Bryan	First Place S1130	<i>Cohesive Self-Dual Yang-Mills Modules Over Four Manifolds</i>
Matthew Paz	Pasadena High School Dylan Rupel	Second Place S1108	<i>WISEnet: A Fourier-Based Machine Learning Model to Extract Stellar Candidates From the NEOWISE Space Telescope Single-Exposure Database</i>
Chih-Bo Chen	San Marino High School Ann Leong	Third Place S1118	<i>Spatialized Motion Sound Localization</i>
Brandon Chang Omkar Guha Kent Gao	West Ranch HS William Hughes	Honorable Mention S1103	<i>An Analysis of Insecticide-Treated Nets on Malaria Transmission Dynamics in Malawi</i>
Yanjun Chen	Palos Verdes Peninsula High School Mark Greenberg	Honorable Mention S1124	<i>Application of Deep Learning Method on Diagnosis of Histopathology-Based Oral Squamous Cell Carcinoma</i>
Jeremy Hsieh	Polytechnic School Robin Barnes	Honorable Mention S1131	<i>Few Shot Machine Learning-based Viability Analysis of 3D Tissue Cultures</i>
Henry Huang	Palos Verdes Peninsula High School Mark Greenberg	Honorable Mention S1105	<i>Creating an Artificial Intelligence Neural Network for Critiquing Expressive Piano Performance</i>

Zixiang Wang	The Webb Schools Joseph Martin	Honorable Mention S1111	<i>Advancing Biomedical Predictions: Multi-View Graph Convolutional Networks for Drug-Target Interactions</i>
Vela Benedicto	Crescenta Valley High School Orenda Tuason	Recognition S1120	<i>A Novel Few Shot AI Modeling Approach Toward Blood Culture Classification and Identification</i>
Zexin Bi	The Webb Schools Joseph Martin	Recognition S1134	<i>"Are We Inviting Danger?" Unveiling the Vulnerabilities of In-Hospital Mortality Prediction Models to Backdoor Attacks</i>
Ziyao Cheng	Palos Verdes Peninsula High School Mark Greenberg	Recognition S1110	<i>DeepBrain: A Convolutional Neural Network Based Pipeline For Multiclass Classification of Brain Tumor MRI Images</i>
Michael Dalva	Granada Hills Charter High School Tripti Shah	Recognition S1112	<i>Monte Carlo vs. Temporal Difference on the Effectiveness of Reinforcement Learning</i>
Susmit Das	Academy of the Canyons Middle College High School Mike Koegle	Recognition S1128	<i>Drug Recommendation System Using NLP and Machine Learning</i>
Emily Gai	Crescenta Valley High School Orenda Tuason	Recognition S1114	<i>Application for Detecting Dangerous Drug Drug Interactions</i>
Sanjay Ganapathy	Gretchen Whitney High School Nitta Song	Recognition S1129	<i>Unveiling Real Estate Prediction Models: Exploring Regression for Price Estimation</i>
Ilia Ghatei Adrian Pham	El Camino Real Charter High School Rosalinda Montague	Recognition S1119	<i>A Novel Multi-Step AI Software: Enhancing the Diagnosis of Multiple Myeloma via Serum Protein Electrophoresis and Immunofixation Analysis.</i>
Ruben Ghazarian	AESA STEM Academy Sona Juharyan	Recognition S1122	<i>Identification of UAV's Using Python</i>
Ziv Landau	Calabasas High School Bradley Boelman	Recognition S1127	<i>AI Potential for Disaster Damage Assessment</i>

Jason Lee	Palos Verdes High School Julie Munoz	Recognition S1106	<i>Integrative Analysis of Multi-Omics Data: A Machine Learning Approach to Breast Cancer Diagnosis and Recurrence</i>
Justin Luo	Flintridge Preparatory School Shane Frewen	Recognition S1107	<i>A.I. Angling: Applying Machine Learning to Fish Weight Estimation</i>
Zalea Nunes	Pasadena High School Dylan Rupel	Recognition S1125	<i>Performance of Artificial Intelligence in Kidney Cancer Lesion Auto Segmentation Using CT Images</i>
Siddarth Payasam	Crescenta Valley High School Orenda Tuason	Recognition S1116	<i>Testing for Alzheimer's Disease Progression Using Artificial Intelligence</i>
Wahida Rahman	USC East College Prep Kavitha Satya-Mohandoss	Recognition S1133	<i>Assessing the Accuracy and Reliability of AI-Generated Responses for Standardized Test Questions: A Comparative Study</i>
Carlos Renteria	Pioneer High School Matthew Murray	Recognition S1104	<i>Can a Car Self Drive With Coding</i>
Andrew Romero christopher cortes	Inglewood High School Luke Rey Arong	Recognition S1126	<i>The Probability of Acquiring Play Card High-Point Characters in Relation to Shuffling Repetitions</i>
Tianqi Wu	Palos Verdes High School Julie Munoz	Recognition S1123	<i>Effects of Training Variables on the Performance of Artificial Neural Networks</i>
Yumi Yamada	National Youth Community Center (Senior) Wonjong Kim	Recognition S1101	<i>Connect 4 strategy</i>
Haoqin Yuan	Brentwood School Darlene Fukuji	Recognition S1115	<i>AI for ET Searching</i>

MICROBIOLOGY - SR S12

Mark Lin	Cabrillo Marine Aquarium, City of Los Angeles Department of Brenton Spies	First Place S1207	<i>Fueling the Future: Isolation of <i>Chlorella vulgaris</i> Biomass From Novel Media Structure</i>
Manon Iwata	Westridge School for Girls Daniel Perahya	Second Place S1206	<i>In Search of Pre-biotics: The Effects of Over-the-Counter Products on the Growth of "Good Bacteria"</i>

Layla Negrin Caroline Collis	Archer School for Girls (Senior) Jerilyn Neshek	Honorable Mention S1203	<i>From Microplastics to Microbes: The Effects of PET Microplastics in B. subtilis Biofilm Formation and Antibiotic Resistance</i>
Lexi Pang	Crescenta Valley High School Orenda Tuason	Honorable Mention S1209	<i>Are you Catching More Than Just Waves In Your Wetsuit?</i>
Nolan Adalin Ryan Viengkhou	Don Bosco Technical Institute Joma Jenkins	Recognition S1202	<i>The Effectiveness of Bacteriophage as an Alternative to Antibiotics</i>
Lily Balian Brianna Balian	La Salle College Preparatory Elizabeth Parga	Recognition S1204	<i>Effects of Glucose and Fatty Acids on Primary Rat Neural Cells</i>
Sarah Bonk Chloe Oh Emma Xu	Flintridge Preparatory School Shane Frewen	Recognition S1208	<i>How Temperature Affects the Enzymes Saccharomyces Cerevisiae</i>
Anai Duenas	Magnolia Science Academy 4 (Senior Division)) Christopher Marten	Recognition S1201	<i>Bactrilogy</i>

PHARMACOLOGY - SR S13

Bryce Tom	Palos Verdes Peninsula High School Mark Greenberg	First Place S1305	<i>Analysis of Synergistic Treatment of Candida Albicans Using Fluconazole and a Next-Generation Echinocandin in Vitro</i>
Ella Tulloch	Archer School for Girls (Senior) Jerilyn Neshek	First Place S1302	<i>The Effects of Different Diets on Neurological Function; Implications for Alzheimer's and Parkinson's Disease</i>
Finley Vincent	Archer School for Girls (Senior) Jerilyn Neshek	Second Place S1303	<i>The Effects of Epigallocatechin Gallate (EGCG) and Nano-EGCG on CdCl₂ and TPA Induced Cancerous Tumors Within Planaria Model</i>
Connie Lim	Palos Verdes High School Julie Munoz	Honorable Mention S1301	<i>Wnt-5a Stimulates Diabetic Corneal Epithelial Wound Healing and Stem Cells</i>
Catherine Kyaw Chloe Tong Jia Qi (Teresa) Xu	Temple City High School Jeannie Martinez	Recognition S1304	<i>Insight Into the Alzheimer's Disease Medication</i>

PHYSICS - SR S14

Melissa Lee Alexander Lee	The Webb Schools Joseph Martin	First Place S1410	<i>Measuring Fall Risk Using the Internet-of-Things Automatic Chair</i>
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Ilinca Sasu Ryan Katal		Second Place S1408	<i>Which Fin Can Win?</i>
Harshini Manikandan Geonhee Lee	Science Academy STEM Magnet (Senior Division) Kristin Fontilea	Third Place S1404	<i>How Does the Aspect Ratio of the Wing of the Aircraft Correspond to the Lift and Drag Ratio?</i>
Arhum Mirza	Institute of Knowledge High School Selena Khan	Third Place S1415	<i>Lift Off! Using Ionic Thrust for Cleaner Air Travel</i>
Hongru Zuo	AESA STEM Academy Sona Juharyan	Third Place S1424	<i>Calculating the Trajectory Equation of a Metallic Field</i>
Arshak Akbar	Arcadia High School Jorge Munoz	Recognition S1423	<i>Increase the Positivity: How Do Shapes Affect Positive Charge Accumulation in an Ion Wind Rotor?</i>
Alexander Ananian	Chatsworth Charter High School & G+STEAM HS Sareen Tashjian	Recognition S1406	<i>The Frictionless Future: Analyzing the Viability of Ground Effect Vehicles in Modern-Day Infrastructure</i>
Michael Avakyan	Holy Martyrs Ferrahian High School Sanahine Chahinian	Recognition S1412	<i>Which Is a Better a Thickening Agent? Cornstarch or Flour.</i>
David Ayvazyan	AESA STEM Academy Sona Juharyan	Recognition S1413	<i>Hook's Law</i>
Rayan Azam	Institute of Knowledge High School Selena Khan	Recognition S1414	<i>Too Loud To Handle! Assessing dB Attenuation Performance of Common Building Materials</i>
Amena Baig Hanzalah Dadabhoy Amal Shereef	Institute of Knowledge High School Selena Khan	Recognition S1420	<i>Breaking the Sound Barrier: A Novel Approach to Enhance Speech Perception in Hard of Hearing Individuals Using Tactile Sound Feedback</i>
Munkhtushig Batkhuyag	AESA STEM Academy Sona Juharyan	Recognition S1426	<i>Bohr Theory of Hydrogen</i>
Andre Buford	Inglewood High School Luke Rey Arong	Recognition S1403	<i>Derrick Crane</i>
Alexander Gyadukyan Euseok Kim	AESA STEM Academy Sona Juharyan	Recognition S1421	<i>Measuring the Coefficient of Drag</i>
Jaekyeom Lee	AESA STEM Academy Sona Juharyan	Recognition S1425	<i>Determining the Equation of a Standing Wave, Its Power, and Its Energy</i>

Steinunn Liorsdottir	Flintridge Preparatory School Shane Frewen	Recognition S1417	<i>The Price Equation and the Virial Theorem</i>
Bryce Lothamer	Walnut High School Garrett Lim	Recognition S1407	<i>Implications for Kinetic Energy Conservation</i>
Richard Luckenbach III Jose Morales	Pioneer High School Matthew Murray	Recognition S1427	<i>Investigating the Impact of Temperature on Musical Instruments</i>
Karen Marin	Pioneer High School Matthew Murray	Recognition S1405	<i>How Does Temperature Affect the Bounce of Tennis Balls?</i>
Edwardo Olvera	Schurr High School Myriam Islas	Recognition S1411	<i>Steaming Hot Tunes</i>
Oscar Rivera	Inglewood High School Luke Rey Arong	Recognition S1428	<i>Electromagnet: Voltage and Force of Attraction</i>
Anthony Romo	USC East College Prep Kavitha Satya-Mohandoss	Recognition S1401	<i>Powering a Ping Pong Ball Particle Accelerator using a Wimshurst Generator</i>
Lizbeth Ruiz john palacios	Inglewood High School Luke Rey Arong	Recognition S1409	<i>Pressure From a Manometer Reader</i>
Mark Wang	Pomona Unified School District Senior Division Bridget Gardea	Recognition S1402	<i>Stefan Boltzmann</i>
PLANT BIOLOGY & PHYSIOLOGY - SR S15			
Joanna Liu	Westridge School for Girls Daniel Perahya	First Place S1508	<i>Colorful Light for Colorful Plants</i>
Emily Rupp	Palos Verdes High School Julie Munoz	Second Place S1505	<i>The Effects of Caffeine on Bell Pepper Plants</i>
Tinwin Htun	North Hollywood High School Christi Deutsch	Third Place S1503	<i>Size and Orientation Requirements for Propagation of Dragon Fruit (<i>Hylocereus undatus</i>) Plant Clippings</i>
Allison Banda	Pioneer High School Matthew Murray	Honorable Mention S1507	<i>Does Frequency Affect <i>Phaseolus vulgaris</i>?</i>
Noor Farooqui Amal Khan	Institute of Knowledge High School Selena Khan	Honorable Mention S1510	<i>Space Shrooms: Examining the Influence of Microgravity on Oyster Mushroom (<i>Pleurotus ostreatus</i>) Growth</i>

Huda Shafi Zaina Salameh	Institute of Knowledge High School Selena Khan	Honorable Mention S1509	<i>Plant Power: Assessing the Anticancer Properties of Plant Extracts through Cress Seed (Lepidium sativum) Germination</i>
Gaia Bhavsar	Archer School for Girls (Senior) Jerilyn Neshek	Recognition S1512	<i>Unveiling the Future of Algae Carbon Sequestration and Biofuel Breakthroughs</i>
Alexa Kagiwada	Archer School for Girls (Senior) Jerilyn Neshek	Recognition S1504	<i>The Effect of Ocean Acidification on the Oxygen Production of Dunaliella salina Algae</i>
Story Lim Elyse Mauer Kaitlyn Lavichant	Flintridge Preparatory School Shane Frewen	Recognition S1506	<i>The Effect of Natural Preservatives on the Rate of Oxidation in Persea americana</i>