

**ANIMAL BIOLOGY (JR) J01**

<b>Mahmoud Alamad</b>	Al Huda Islamic School	<b>First Place</b> J0111 Split group: -	<i>Autism Listens!</i>
<b>Benjamin Hewitt</b>	Portola Highly Gifted Magnet	<b>Second Place</b> J0101 Split group: -	<i>Indication of Laterality in Bipedal Dinosaurs Using Gait Analysis from Dinosaur Trackways</i>
<b>Dani Chmait</b>	La Canada Preparatory	<b>Third Place</b> J0103 Split group: -	<i>The Triplet Fingerprint Study: Comparison of Fingerprint Patterns of Identical and Non-Identical Co-Triplets</i>
<b>Yolanda Carrion</b>	South Gate Middle School	<b>Honorable Mention</b> J0117 Split group: -	<i>The Effect that Salinity has on Sea Urchins</i>
<b>Henry Wilson</b>	St. Timothy School	<b>Honorable Mention</b> J0106 Split group: -	<i>The Thermal Conductivity of Animal Fibers</i>

**ANIMAL BIOLOGY (SR) S01**

<b>Jonnathan Sanchez Jose De Anda Gissell Camarena</b>	Sarah Ross Science Fair (Senior Division)	<b>First Place</b> S0107 Split group: -	<i>Galleria Mellonella Immune System Response to An Insecticide</i>
<b>Hongjia (Ashley) Yang</b>	Palisades Charter High	<b>Second Place</b> S0105 Split group: -	<i>Effects of Peptides on Memory Retainment</i>
<b>Dustin Hartuv</b>	Palos Verdes High School	<b>Third Place</b> S0103 Split group: -	<i>Movement of Cactus Wrens (Campylorhynchus brunneicapillus) Amid Various Habitats</i>
<b>Michael Liu</b>	Palos Verdes High School	<b>Honorable Mention</b> S0110 Split group: -	<i>Is RNA a Determining Factor in Memory in Dugesia tigrina</i>
<b>Jacob Kang</b>	Palos Verdes Peninsula High School	<b>Honorable Mention</b> S0106 Split group: -	<i>The Effects of Ocean Acidification on the Early Larval Development of Haliotis rufescens</i>
<b>Felicia Lin</b>	Palos Verdes High School	<b>Honorable Mention</b> S0104 Split group: -	<i>Ocean Acidification and Neurobiology: How the Aplysia californica Fits In</i>
<b>Maximo Guerrero</b>	Francisco Bravo Medical Magnet H.S	<b>Honorable Mention</b> S0109 Split group: -	<i>The Effects of Different Frequency Sounds on C. Elegans</i>

<b>Andrea Maldonado Ernesto Herrera, Jr.</b>	Lawndale High School	<b>Honorable Mention</b> S0101 Split group: -	<i>The Effect of Gases on Palamonetes paludosus Growth</i>
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**ANIMAL PHYSIOLOGY (JR) J02**

<b>Margaret Franke</b>	Porter Ranch Community School	<b>First Place</b> J0206 Split group: -	<i>Does a Horse's Shoulder Angle Affect its Stride?</i>
<b>Gerardo Rochin</b>	South Gate Middle School	<b>Second Place</b> J0202 Split group: -	<i>The Effect of Runoff Substances on the Fertilization of Sea Urchins</i>
<b>Zoraiz Hashmi</b>	Al Huda Islamic School	<b>Third Place</b> J0208 Split group: -	<i>Ouch! Pull the Kick, Not the Ligament!</i>
<b>Sabahat Nabiha</b>	Al Huda Islamic School	<b>Honorable Mention</b> J0207 Split group: -	<i>Help Me Concentrate! Does Chewing Gum Effect Concentration?</i>

**ANIMAL PHYSIOLOGY (SR) S02**

<b>Erica Whiting</b>	Pasadena High School	<b>First Place</b> S0201 Split group: -	<i>Digestion of Styrofoam by Mealworms (larvae of Tenebrio molitor): The Effect of a Nutritional Boost</i>
<b>Lauren Yen</b>	Palos Verdes Peninsula High School	<b>Second Place</b> S0206 Split group: -	<i>Calcium Content in Neuron Changes with Light Stimulation</i>
<b>Jonathan Wang</b>	Palos Verdes High School	<b>Third Place</b> S0204 Split group: -	<i>The Effect of Nitrogen and Phosphorous Point Source Runoff on Anthopleura elegantissima</i>

**BEHAVIORAL SCIENCES - NON-HUMAN (JR) J03**

<b>David Gao</b>	Huntington Middle School	<b>First Place</b> J0303 Split group: -	<i>Drosophila Melanogaster Addiction to Sugar</i>
<b>Alexa Duran</b>	South Gate Middle School	<b>Second Place</b> J0301 Split group: -	<i>Jellies Under Pressure</i>
<b>Peter Boldt</b>	St. Monica Academy (6th, 7th, 8th)	<b>Third Place</b> J0310 Split group: -	<i>The Learning Curves of Mice versus Hamsters</i>
<b>LeiliRose Mohammadi</b>	St. John Fisher School	<b>Honorable Mention</b> J0308 Split group: -	<i>What Natural Ant Repellent Is The Most Effective To Keep Ants Out Of Your House?</i>

## BEHAVIORAL/SOCIAL SCIENCES - HUMAN (JR) J04

<b>Chloe Green</b>	Ridgecrest Intermediate School	<b>First Place</b> J0402 Split group: -	<i>The Effect of the Number of Tries Players Perceive Themselves as Having in a Video Game on the In-Game Success Rate of Middle School Players</i>
<b>Mahnur Bharucha</b>	Institute of Knowledge	<b>Second Place</b> J0413 Split group: -	<i>Wonder Pets: Effects Of Animal-Assisted Therapy On Children With Autism</i>
<b>Joshua Richland</b>	The Rabbi Jacob Pressman Academy of Temple Beth Am	<b>Third Place</b> J0408 Split group: -	<i>Memories Under the Influence</i>
<b>Teva Corwin</b>	Larchmont Charter School LaFayette Park	<b>Honorable Mention</b> J0429 Split group: -	<i>Perceiving Professions: An Investigation of Gender Stereotypes</i>
<b>Raya Dajani</b>	Al Huda Islamic School	<b>Honorable Mention</b> J0423 Split group: -	<i>MSG: Myth or Reality</i>
<b>Riley Sobel</b>	Larchmont Charter School LaFayette Park	<b>Honorable Mention</b> J0424 Split group: -	<i>The Essence of Time</i>
<b>Brooke Charlton</b>	American Martyrs School	<b>Honorable Mention</b> J0401 Split group: -	<i>How Are Our Minds Distracted By Texting?</i>
<b>Peter Challita</b>	St. Cyril of Jerusalem School	<b>Honorable Mention</b> J0420 Split group: -	<i>Are Kids More Open to Illusions Than Adults?</i>
<b>Rachel Metzger</b>	The Rabbi Jacob Pressman Academy of Temple Beth Am	<b>Honorable Mention</b> J0421 Split group: -	<i>A "Stereotypical" Project: A Look into how Stereotypes Affect What Voices Young Children Trust</i>
<b>Rachel Alvarado</b>	Arroyo Seco Museum Science Magnet School	<b>Honorable Mention</b> J0422 Split group: -	<i>Gender and Conformity</i>
<b>Samantha Wu</b>	San Gabriel Christian School	<b>Honorable Mention</b> J0425 Split group: -	<i>The Stroop Effect</i>
<b>Joshua Fernandez</b>	Fleming Middle School	<b>Honorable Mention</b> J0409 Split group: -	<i>Nearsighted vs Farsighted</i>

**BEHAVIORAL/SOCIAL SCIENCES (SR) S03**

<b>Ruwanthi Ekanayake</b>	Palos Verdes Peninsula High School	<b>First Place</b> S0305 Split group: -	<i>Effects of Sleep Quality on Virtual Reality Language Learning</i>
<b>Kendall Amon</b>	Marlborough School	<b>Second Place</b> S0302 Split group: -	<i>The Effects of Physiological Stress on Pattern Separation Ability in Older and Younger Adults</i>
<b>Miranda Li</b>	Crescenta Valley High School	<b>Third Place</b> S0304 Split group: -	<i>Impact of Patient-Centered Approach (PCA) intervention on Women's Knowledge of National Cervical Cancer Screening Guidelines</i>

**BIOCHEMISTRY & MOLECULAR BIOLOGY (JR) J05**

<b>Suraj Anand</b>	Ridgecrest Intermediate School	<b>First Place</b> J0522 Split group: -	<i>Conserved Regions of Coagulation Factors III, VIII, and XII's Percent, Location, and Function in Diverse Species</i>
<b>Julia Abele</b>	St. John Fisher School	<b>Second Place</b> J0510 Split group: -	<i>How Does the Amount Of Time Spent Blending The Batter And The Amount Of Time Waiting Before Cooking The Batter Impact The Height Of The Pancake?</i>
<b>Lukas Jarasunas</b>	St. John Fisher School	<b>Third Place</b> J0513 Split group: -	<i>Drip, Drip, Drip: Which Ice Cream to Choose on a Hot Day to Avoid a Big Melted Mess</i>
<b>Sara Dajani</b>	Al Huda Islamic School	<b>Honorable Mention</b> J0519 Split group: -	<i>Bread and Its Clogging Effect</i>
<b>Maximilian Arnerich</b>	St. Martin of Tours School	<b>Honorable Mention</b> J0514 Split group: -	<i>Counting Calories</i>
<b>Hannah Nenadic</b>	St. John Fisher School	<b>Honorable Mention</b> J0509 Split group: -	<i>I Scream, You Scream, We All Scream for Lactase: Understanding Lactose Intolerance by Investigating the Effects of the Enzyme Lactase on Milk Products</i>

**BIOCHEMISTRY & MOLECULAR BIOLOGY (SR) S04**

<b>Caleb Cheung</b>	Youth Science Center (9-12)	<b>First Place</b> S0402 Split group: -	<i>In Vitro Osteogenesis Potential in Osteoblastic MC3T3-E1 Cells from Moringa Oleifera and Boswellia Serrata Extracts</i>
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<b>Onyinyechi Onyeador</b>	Palos Verdes High School	<b>Second Place</b> S0405 Split group: -	<i>Effects on Mouse Growth of Postnatal Pak2 Gene Deletion in Endothelial Cells</i>
<b>Therese Arevalo</b>	California Academy of Math & Science	<b>Third Place</b> S0406 Split group: -	<i>The Effect of Chlorophyll Concentration on Vitamin C Content</i>
<b>Hemali Patel</b>	Francisco Bravo Medical Magnet H.S	<b>Honorable Mention</b> S0403 Split group: -	<i>Does Milk Protein Concentration Change During the Four Lactation Periods?</i>
<b>CHEMISTRY - APPLIED (JR) J06</b>			
<b>Nathan Deng</b>	Huntington Middle School	<b>First Place</b> J0624 Split group: -	<i>Drop by Drop: Manipulating the Surface Tension of Water to Find the Best Way of Cleaning</i>
<b>Adam Yang</b>	South Pasadena Middle School	<b>Second Place</b> J0601 Split group: -	<i>Pee for Power</i>
<b>Mohona Ganguly</b>	Chandler School	<b>Third Place</b> J0622 Split group: -	<i>Measurement of Potassium in Four Varieties of Rice by Atomic Emission Spectroscopy</i>
<b>Deven Nicotero</b>	Portola Highly Gifted Magnet	<b>Honorable Mention</b> J0613 Split group: -	<i>Examining the Effectiveness of Different Antacids on the Neutralization of the pH of Simulated Stomach Acid</i>
<b>Michael Gureghian</b>	St. Gregory's Hovsepien School	<b>Honorable Mention</b> J0621 Split group: -	<i>What is the Effect of Saline Water Concentration On the Electrolytic Properties of Water?</i>
<b>Rafia Siddiq</b>	New Dimensions School	<b>Honorable Mention</b> J0625 Split group: -	<i>Yeast Busters: Stopping Fungus in its Tracks</i>
<b>Alexandra Gold Nixie Gutierrez Genevieve Miller</b>	Intellectual Virtues Academy	<b>Honorable Mention</b> J0605 Split group: -	<i>Curds to Casein</i>
<b>Enrique Garza</b>	El Sereno Magnet Center	<b>Honorable Mention</b> J0614 Split group: -	<i>Corrosion Factors For Zinc and Aluminum</i>
<b>Muhammad Ali</b>	Institute of Knowledge	<b>Honorable Mention</b> J0623 Split group: -	<i>Banana Biofuel</i>

## CHEMISTRY - GENERAL (JR) J07

<b>Ariana Fotovat</b>	St. Martin of Tours School	<b>First Place</b> J0703 Split group: A	<i>Meltdown</i>
<b>Kory Cascadden</b>	St. Martin of Tours School	<b>Second Place</b> J0724 Split group: A	<i>Flash Frozen</i>
<b>Livia Nazari</b>	John Muir Middle School	<b>Third Place</b> J0728 Split group: A	<i>How Does the Type of Orange and Brand of Orange Juice Affect the Amount of Vitamin C?</i>
<b>Zainab Nessary</b>	New Dimensions School	<b>Honorable Mention</b> J0751 Split group: A	<i>Homemade Cold Pack</i>
<b>Peter Hyan IV</b>	Our Mother of Good Counsel	<b>Honorable Mention</b> J0738 Split group: A	<i>The Effects of Salt Water on Different Types of Metals</i>
<b>Ashley Robles</b>	Fedde International Studies Academy	<b>Honorable Mention</b> J0704 Split group: A	<i>Will it Melt?</i>
<b>Larisa Assadourian</b>	St. Gregory's Hovsepien School	<b>First Place</b> J0725 Split group: B	<i>I Love Dairy, but it Hates Me: Testing the Glucose Content of Milk and Ice Cream</i>
<b>Zainab Husain</b>	Institute of Knowledge	<b>Second Place</b> J0752 Split group: B	<i>How to Grow Homemade Stalactites</i>
<b>Roaa Shaheen</b>	Sierra Madre Middle School	<b>Third Place</b> J0740 Split group: B	<i>What is the Effect of Different MgSO<sub>4</sub> Concentrations on Hydrogen and Oxygen Gas Production?</i>
<b>Patrick Baghdasarian</b>	John Muir Middle School	<b>Honorable Mention</b> J0737 Split group: B	<i>Water Separation</i>
<b>Lorents Assadourian</b>	St. Gregory's Hovsepien School	<b>Honorable Mention</b> J0729 Split group: B	<i>I Ran &amp; Ran. I am Tired, Sweating &amp; Thirsty. What Should I Drink? Electrolyte Challenge: Orange Juice vs. Sports Drink</i>
<b>Ryan Madariaga</b>	St. Timothy School	<b>Honorable Mention</b> J0742 Split group: B	<i>Art Under Fire</i>

**CHEMISTRY (SR) S05**

<b>Clarissa Tacto</b>	St. Anthony High School	<b>First Place</b> S0508 Split group: -	<i>The Intermolecular Attraction of Acetaminophen and Aspirin with Plastics</i>
<b>James Karroum II</b>	St. John Bosco	<b>Second Place</b> S0516 Split group: -	<i>Inhibiting the Corrosion of Metals Using Cathodic Protection</i>
<b>Maya Valeriano</b>	California Academy of Math & Science	<b>Third Place</b> S0526 Split group: -	<i>Breaking Point: The Relationship Between Strength and Temperature</i>
<b>Sam LeFevre Brandon Emirkhanian Hyun Ok (Helen) Choi</b>	Crescenta Valley High School	<b>Honorable Mention</b> S0534 Split group: -	<i>Hydrolysis of Water using Metal Salt Catalysts</i>
<b>Sevoulig Bastilian</b>	Holy Martyrs Ferrahian High School	<b>Honorable Mention</b> S0535 Split group: -	<i>CSI: Cell Phone Spectrophotometer</i>
<b>Michael Gyadukyan</b>	Ribet Academy (Sr. Division)	<b>Honorable Mention</b> S0527 Split group: -	<i>Excursions in Le Chatelier's Principle</i>

**EARTH/SPACE SCIENCES (JR) J08**

<b>William Labrador</b>	Chandler School	<b>First Place</b> J0813 Split group: -	<i>An Inexpensive Radiation Detector and Its Application to Cosmic Rays and Environmental Radiation</i>
<b>Felimon Charles Legaspi</b>	Incarnation School	<b>Second Place</b> J0806 Split group: -	<i>Building Better Earthquake Resistant Structures</i>
<b>Hudson Billock</b>	Flintridge Preparatory School, Middle School	<b>Third Place</b> J0807 Split group: -	<i>Space Balloon</i>
<b>Eliza Jacobs</b>	Mayfield Junior School of the Holy Child Jesus	<b>Honorable Mention</b> J0804 Split group: -	<i>Meteorite or MeteorWrong?</i>
<b>Andy Smithwick</b>	Sierra Madre Middle School	<b>Honorable Mention</b> J0801 Split group: -	<i>How Can We Use Filters to Reduce Light Pollution</i>

**EARTH/SPACE SCIENCES (SR) S06**

<b>Ethan Uetrecht</b>	Palos Verdes Peninsula High School	<b>First Place</b> S0603 Split group: -	<i>Assessing the Practicality of NEO Deflection Strategies Using Simulation - Year 2</i>
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<b>Albert Zhai</b>	La Canada High School	<b>Second Place</b> S0601 Split group: -	<i>Building a Web-based Global Plant Productivity Information System (GPPIS)</i>
<b>Kaitlyn Arst</b>	Daniel Pearl Magnet High School	<b>Third Place</b> S0605 Split group: -	<i>Using Superabsorbent Biodegradable Hydrogel to Decrease Water Use and Improve Drought Stress Conditions on Agronomic Plants</i>
<b>Jessica Bushman Emma Chusid Panna Gattyan</b>	The Buckley School	<b>Honorable Mention</b> S0604 Split group: -	<i>Ultimate Sustainable System: Fish and Botany</i>
<b>ECOLOGY (JR) J09</b>			
<b>Xavier Csato</b>	Mirman School	<b>First Place</b> J0918 Split group: -	<i>Radiation Investigation: What's in YOUR Fish</i>
<b>John Olson</b>	St. John Fisher School	<b>Second Place</b> J0910 Split group: -	<i>A River Runs Through It - The Effect of Location on Pollution levels in the Russian River</i>
<b>Marley Rhodes</b>	St. Timothy School	<b>Third Place</b> J0912 Split group: -	<i>Let it Rain: The Effect of Acid Rain on Calendulas</i>
<b>Julia Coffey Sienna Wolfe</b>	Beverly Vista Elementary	<b>Honorable Mention</b> J0911 Split group: -	<i>Can Swales Save Our Drought?</i>
<b>Jennifer Ledezma</b>	South Gate Middle School	<b>Honorable Mention</b> J0908 Split group: -	<i>The Effects of Different Types of Algae on the Growth of California Sea Hares (Aplysia californica)</i>
<b>Camille Paquette</b>	St. Timothy School	<b>Honorable Mention</b> J0902 Split group: -	<i>Solar-Powered Water Purification</i>
<b>ECOLOGY (SR) S07</b>			
<b>Nicholas Sercel Marc Morreale</b>	St. Francis High School	<b>First Place</b> S0703 Split group: -	<i>Investigation of Efficacy of CO2 Enhancement for Kratke Hydroponics</i>
<b>Michael Mcfarland</b>	Palos Verdes Peninsula High School	<b>Second Place</b> S0702 Split group: -	<i>The Effect of Hyperion Reclamation Plant's 1-Mile Outfall Effluent on Red Abalone Larvae</i>
<b>Siranush Martirosyan Lilit Danelyan Bianca Mirza</b>	Herbert Hoover High School	<b>Third Place</b> S0705 Split group: -	<i>Identifying Plastic Ingested by the Phoebastria immutabilis using the Burn Test</i>



<b>Sarah Baker-Wacks</b>	Marlborough School	<b>Honorable Mention</b> S0704 Split group: -	<i>The Impact Dilutions of All-Natural, and Non-All-Natural, Household products, Have on Plants</i>
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**ENGINEERING APPLICATIONS (JR) J10**

<b>Katherine Arriola Danielle Lopez</b>	Magnolia Science Academy # 6	<b>First Place</b> J1038 Split group: A	<i>Preventing Earthquake Destruction</i>
<b>Dylan Lee</b>	Portola Highly Gifted Magnet	<b>Second Place</b> J1027 Split group: A	<i>How Does the Addition of Diagonal Braces Affect the Rigidity of a Wall?</i>
<b>Jordan Feldman</b>	The Rabbi Jacob Pressman Academy of Temple Beth Am	<b>Third Place</b> J1037 Split group: A	<i>Controlling a Robot with Electromyography</i>
<b>Leia Gluckman Joseph/JJ Gluckman</b>	Beverly Vista Elementary	<b>Honorable Mention</b> J1042 Split group: A	<i>Saving Lives with Solar Cookers</i>
<b>Chasen Kazahaya Jack Saltzman</b>	Porter Ranch Community School	<b>Honorable Mention</b> J1021 Split group: A	<i>Can Lasers Transmit Sound?</i>
<b>Anson Noland</b>	Portola Highly Gifted Magnet	<b>Honorable Mention</b> J1011 Split group: A	<i>What is the Most Efficient Pitch Angle of a Wind Turbine Airfoil</i>
<b>Rhonen Harris</b>	Science Academy: STEM School	<b>Honorable Mention</b> J1051 Split group: A	<i>Controlling Electronics with Your Mind</i>
<b>Kristof Corbell Jeffrey Johnson</b>	American Martyrs School	<b>Honorable Mention</b> J1040 Split group: A	<i>Homemade Hovercraft</i>
<b>Azrin Khan</b>	El Sereno Magnet Center	<b>Honorable Mention</b> J1016 Split group: A	<i>Fighting Fire: Fire Extinguishing Robot with Sensor</i>
<b>Sophie Carter</b>	Westridge School for Girls	<b>First Place</b> J1058 Split group: B	<i>Indoor Navigation Using The Magnetic Field</i>
<b>Cristofer Lortz</b>	Fleming Middle School	<b>Second Place</b> J1025 Split group: B	<i>Oscillating Water Column Generator</i>
<b>Megha Jain</b>	Portola Highly Gifted Magnet	<b>Third Place</b> J1045 Split group: B	<i>The Tank Trend: Conserving Water Easily</i>

<b>Abby Arnerich</b>	St. Martin of Tours School	<b>Honorable Mention</b> J1001 Split group: B	<i>Filtration Optimization</i>
<b>Samuel Mihld</b>	Sierra Madre Middle School	<b>Honorable Mention</b> J1054 Split group: B	<i>Robotic Service Dog</i>
<b>Abigail Yuhan</b>	Westridge School for Girls	<b>Honorable Mention</b> J1003 Split group: B	<i>The Strength of Different Truss Bridges</i>
<b>Alvin Nguyen Hudson Pearce</b>	San Gabriel Christian School	<b>Honorable Mention</b> J1006 Split group: B	<i>Light the Way</i>
<b>Ashley Oki</b>	San Gabriel Christian School	<b>Honorable Mention</b> J1013 Split group: B	<i>Flush Out the Cold</i>
<b>ENGINEERING APPLICATIONS (SR) S08</b>			
<b>Benjamin Liu</b>	Arcadia High School	<b>First Place</b> S0803 Split group: -	<i>A Lab-On-A-Chip Device Incorporating Novel Micromixers, Micropumps and Microvalves for Disease Diagnostics</i>
<b>Annie Benedict</b>	Palos Verdes Peninsula High School	<b>Second Place</b> S0802 Split group: -	<i>Development Of A Household Powered Desalination Device</i>
<b>Ryan Barnes</b>	Palos Verdes Peninsula High School	<b>Third Place</b> S0817 Split group: -	<i>Strength of 3D Printed Interlocking Designs</i>
<b>Justin Chuang</b>	Diamond Bar High School	<b>Honorable Mention</b> S0807 Split group: -	<i>Artifact Correction for Depth-Resolved Determination of Attenuation Coefficient in Optical Coherence Topography (OCT)</i>
<b>Lauren Harris</b>	High Tech Los Angeles	<b>Honorable Mention</b> S0812 Split group: -	<i>Harnessing Environmental Waste Heat as a Power Source with Thermoelectric Generators</i>
<b>Rei Landsberger</b>	Palos Verdes Peninsula High School	<b>Honorable Mention</b> S0816 Split group: -	<i>Design, Modeling, and Testing of a Fluid-Powered Tracker for Solar Panels (Year 2)</i>
<b>Tomas Meza Stieben</b>	Francisco Bravo Medical Magnet H.S	<b>Honorable Mention</b> S0820 Split group: -	<i>Invisible but Beneficial</i>

**ENGINEERING RESEARCH (JR) J11**

<b>Jeanie Benedict</b>	St. John Fisher School	<b>First Place</b> J1116 Split group: -	<i>Airplanes Use Them, So Why "Can't" Windmills? The Effect of Winglet Cant Angle on the Speed of a Windmill</i>
<b>Chloe Brandon</b>	Sierra Madre Middle School	<b>Second Place</b> J1108 Split group: -	<i>Bio-Inspired Wind Power: Can a Whale Help Us Design Better Wind Turbines?</i>
<b>Enzo Pardo</b>	Ribet Academy (Jr. Division)	<b>Third Place</b> J1113 Split group: -	<i>Bridges</i>
<b>Michael Wilkins Joseph Erickson Jacob Spellman</b>	Westmark School	<b>Honorable Mention</b> J1121 Split group: -	<i>The Power of Light</i>
<b>Anderson Sutandinata</b>	Ridgecrest Intermediate School	<b>Honorable Mention</b> J1102 Split group: -	<i>How Does the Exterior Design of a Dome Affect its Compressive Strength</i>
<b>Joshua Tomoyasu</b>	Sierra Madre Middle School	<b>Honorable Mention</b> J1118 Split group: -	<i>How Does the Position of Permanent Magnets Affect Generator Output?</i>
<b>Nathalie Eid</b>	St. Cyril of Jerusalem School	<b>Honorable Mention</b> J1123 Split group: -	<i>How Does Acid Rain Affect Building Materials?</i>
<b>Braden Nucum</b>	St. John Fisher School	<b>Honorable Mention</b> J1107 Split group: -	<i>Which Shape is Stronger</i>
<b>Oscar De La Torre</b>	Lennox Middle School	<b>Honorable Mention</b> J1124 Split group: -	<i>Rocket Science</i>

**ENGINEERING RESEARCH (SR) S09**

<b>Shannon Chen</b>	Palos Verdes Peninsula High School	<b>First Place</b> S0911 Split group: -	<i>Airship Hull Optimization Using Artificial Neural Network and Computational Fluid Dynamic Simulations</i>
<b>Bhavin Shah</b>	Clark Magnet High School	<b>Second Place</b> S0902 Split group: -	<i>Diffusivity and Solvation of Alkali &amp; Halogen Ions in Solid and Aqueous Electrolytes</i>
<b>Mia Bella Pardo</b>	Ribet Academy (Sr. Division)	<b>Third Place</b> S0907 Split group: -	<i>Radioactive Shield</i>

<b>David Zheng</b>	San Marino High School	<b>Honorable Mention</b> S0904 Split group: -	<i>Effect of Water Droplet Advancing Rates on the Wetting of Polymeric Surfaces</i>
<b>Andrew Karroum</b>	St. John Bosco	<b>Honorable Mention</b> S0901 Split group: -	<i>The Effect of Retaining Wall Type on Displacement Force</i>
<b>ENVIRONMENTAL MANAGEMENT (JR) J12</b>			
<b>Dylan Shragg Michael Maregne</b>	Science Academy: STEM School	<b>First Place</b> J1209 Split group: -	<i>Shade Balls: Sphere vs. Tetrahedron</i>
<b>Madison Dietz</b>	St. Martin of Tours School	<b>Second Place</b> J1220 Split group: -	<i>Make it Rain! - What Material Works Best in Seeding Clouds?</i>
<b>Nahla Kattih</b>	Institute of Knowledge	<b>Third Place</b> J1227 Split group: -	<i>Polymers vs Detergents</i>
<b>Eugene Reicher</b>	Sierra Canyon School	<b>Honorable Mention</b> J1211 Split group: -	<i>Is the Required LADWP Lawn Irrigation Schedule the Best to Provide the Most Soil Moisture?</i>
<b>Milo Woods</b>	Mayfield Junior School of the Holy Child Jesus	<b>Honorable Mention</b> J1225 Split group: -	<i>Soil and Spoons</i>
<b>Emily Sarte</b>	Our Mother of Good Counsel	<b>Honorable Mention</b> J1210 Split group: -	<i>Going Green to Keep our Planet Blue</i>
<b>Sebastian Cordero</b>	Our Mother of Good Counsel	<b>Honorable Mention</b> J1232 Split group: -	<i>Hold the Salt, Please! The Effect of Different Energy Sources on an Evaporation Desalination System in California</i>
<b>Lauren Billnitzer</b>	St. John Fisher School	<b>Honorable Mention</b> J1219 Split group: -	<i>Planting Materials: Which Best Retains Water?</i>
<b>Turandot Shayegan Kendall McDermott Matteo Perez</b>	Mirman School	<b>Honorable Mention</b> J1235 Split group: -	<i>The Blaze Barriers</i>
<b>Isabel Reynoso</b>	El Sereno Magnet Center	<b>Honorable Mention</b> J1216 Split group: -	<i>Gray Water</i>
<b>Mireille Karadanaian</b>	Walter Reed Middle School	<b>Honorable Mention</b> J1226 Split group: -	<i>Turn This Drought Inside Out!</i>

<b>Noa Ben-Shabat</b>	CHIME Charter School	<b>Honorable Mention</b> J1230 Split group: -	<i>Eco Plants</i>
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**ENVIRONMENTAL MANAGEMENT (SR) S10**

<b>Christopher Isozaki</b>	Palos Verdes High School	<b>First Place</b> S1004 Split group: -	<i>Separating CO2 From the Atmosphere to Help Minimize Global Warming-Year 1</i>
<b>Diana Agdashian</b>	Ribet Academy (Sr. Division)	<b>Second Place</b> S1008 Split group: -	<i>Potable Water Analysis</i>
<b>Daniela Semerjian Siran Keosian Aleek Derderian</b>	Holy Martyrs Ferrahian High School	<b>Third Place</b> S1007 Split group: -	<i>Drill It, Don't Spill It</i>
<b>Philip Singh Jeremiah Fountain Berkley Morgan</b>	The Buckley School	<b>Honorable Mention</b> S1015 Split group: -	<i>The Ultimate Suitability Project</i>
<b>Alan Michel</b>	Sarah Ross Science Fair (Senior Division)	<b>Honorable Mention</b> S1001 Split group: -	<i>Plant Growth with Insecticides</i>
<b>Daniel Nazarit Angel Olmos</b>	Francisco Bravo Medical Magnet H.S	<b>Honorable Mention</b> S1006 Split group: -	<i>Aquaponics: A Path for a Better Future</i>
<b>Evelyn Chang</b>	Agoura High School	<b>Honorable Mention</b> S1009 Split group: -	<i>Modeling and Regulating the Elk Population in Yellowstone National Park with Updated Data (2004~2015)</i>

**MATERIALS SCIENCE (JR) J13**

<b>Joseph Adams</b>	Mayfield Junior School of the Holy Child Jesus	<b>First Place</b> J1308 Split group: -	<i>Can You Hear Me Now? - A Project on Acoustic Physics with Household Materials</i>
<b>Phoebe Kellogg</b>	John Muir Middle School	<b>Second Place</b> J1311 Split group: -	<i>Huff, Puff, and Shake the House Down</i>
<b>Kelvin De Leon</b>	St. John Fisher School	<b>Third Place</b> J1310 Split group: -	<i>Shhhhh, Keep It Quiet! Which Material Best Insulates Sound?</i>
<b>Corwin Phung</b>	San Gabriel Christian School	<b>Honorable Mention</b> J1304 Split group: -	<i>Block Out the UV</i>
<b>Saara Hashim</b>	Institute of Knowledge	<b>Honorable Mention</b> J1313 Split group: -	<i>Surface Coatings vs. Natural : Which Resists Water Absorption?</i>

Jacqueline Yang	Fleming Middle School	<b>Honorable Mention</b> J1307 Split group: -	<i>Bundled-Up Oranges That Tell Time</i>
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**MATHEMATICS & COMPUTER SCIENCES (JR) J14**

Maxim Zhulin	Portola Highly Gifted Magnet	<b>First Place</b> J1410 Split group: -	<i>Effects of Pipelining on CPU speed</i>
Hunter Bren	Mirman School	<b>Second Place</b> J1405 Split group: -	<i>Fast and Furious Physics</i>
Alexandra Christodoulou	Huntington Middle School	<b>Third Place</b> J1402 Split group: -	<i>Medical Informatics and Pharmacogenetics and Prescription Change</i>

**MATHEMATICS & COMPUTER SCIENCES (SR) S11**

Sanath Devalapurkar	West High School	<b>First Place</b> S1107 Split group: -	<i>The Algebra and Geometry of Quasicategories</i>
Kevin Pho	California Academy of Math & Science	<b>Second Place</b> S1105 Split group: -	<i>Digital Fingerprints: Constructing One-Way Hash Functions</i>
Kevin Liu	Palos Verdes High School	<b>Third Place</b> S1104 Split group: -	<i>Network Security (WPA2-PSK): Just How Safe is Your Information Over Wifi?</i>

**MICROBIOLOGY (JR) J15**

Josue Rodriguez	Portola Highly Gifted Magnet	<b>First Place</b> J1506 Split group: -	<i>Are Hand Sanitizers and Antimicrobials Effective?</i>
Juliesen Jaime	Arroyo Seco Museum Science Magnet School	<b>Second Place</b> J1507 Split group: -	<i>The Effectiveness of Active Ingredients in Hand Sanitizer</i>
Alexandra Bermudes	Portola Highly Gifted Magnet	<b>Third Place</b> J1501 Split group: -	<i>Are There Bioluminescent Bacteria (<i>Photorhabdus luminescens</i>) in the Santa Monica Mountains?</i>
Len Korol	The Rabbi Jacob Pressman Academy of Temple Beth Am	<b>Honorable Mention</b> J1509 Split group: -	<i>Germs, Germs Everywhere</i>

**MICROBIOLOGY (SR) S12**

Elan Filler	Palos Verdes High School	<b>First Place</b> S1202 Split group: -	<i>A Novel Treatment for <i>Candida glabrata</i> Infection</i>
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<b>Daniela Nieva</b>	St. Monica Academy	<b>Second Place</b> S1201 Split group: -	<i>Sterilization of Black Tea Using UV Irradiation</i>
<b>Matthew Lee</b>	Palos Verdes High School	<b>Third Place</b> S1203 Split group: -	<i>The Future of Food: The Effects of Red Abalone Feces on Spirulina's Nutrient Concentration</i>
<b>PHARMACOLOGY (JR) J16</b>			
<b>Sage Saling</b>	Larchmont Charter School LaFayette Park	<b>First Place</b> J1610 Split group: -	<i>Limiting Drug Interactions Through An Online Dashboard Tool</i>
<b>Avery DeVore</b>	American Martyrs School	<b>Second Place</b> J1602 Split group: -	<i>What Essential Oil Will Exterminate Flies The Fastest?</i>
<b>Ammar Hasan</b>	Al Huda Islamic School	<b>Third Place</b> J1601 Split group: -	<i>Pill Dissolving</i>
<b>Elisha Johnston</b>	Youth Science Center 6-8	<b>Honorable Mention</b> J1604 Split group: -	<i>Regenerative Medicine in vitro: Investigating the Effect of Prolotherapy on Cell Growth</i>
<b>PHARMACOLOGY (SR) S13</b>			
<b>Davyd Slesarenko</b>	Francisco Bravo Medical Magnet H.S	<b>First Place</b> S1301 Split group: -	<i>Effects of Colas on Turbatrix Aceti</i>
<b>Nikhil Murty</b>	Palos Verdes Peninsula High School	<b>Second Place</b> S1305 Split group: -	<i>Perinatal Nicotine Exposure's Effects on PKC Isoforms in Male and Female Airway Smooth Muscle Cells</i>
<b>Gustavo Cervantes</b>	Francisco Bravo Medical Magnet H.S	<b>Third Place</b> S1303 Split group: -	<i>The Anthelmintic Effects of Moringa Oleifera Against Earthworms</i>
<b>PHYSICS - AERODYNAMICS/HYDRODYNAMICS (JR) J17</b>			
<b>Jonah Henry</b>	Millikan Middle School	<b>First Place</b> J1714 Split group: -	<i>Tabletop Hurricanes: A Study of Vortex Stability in a Rotating Fluid</i>
<b>Gil Dominguez-Letelier</b>	Ribet Academy (Jr. Division)	<b>Second Place</b> J1710 Split group: -	<i>Parachutes and Drag</i>
<b>Sophia Cotman</b>	Mayfield Junior School of the Holy Child Jesus	<b>Third Place</b> J1720 Split group: -	<i>Swim Caps: Do They Really Make You Faster?</i>

<b>Austin Shimek</b>	Village Christian Middle School	<b>Honorable Mention</b> J1704 Split group: -	<i>Lift It Up</i>
<b>Noam Elroi</b>	Ridgecrest Intermediate School	<b>Honorable Mention</b> J1718 Split group: -	<i>Effect of Different Fin Setups on the Resistance that a Surf Board Exerts Against Forward Pull</i>
<b>Hannah Davy</b>	St. Joseph School (Long Beach)	<b>Honorable Mention</b> J1711 Split group: -	<i>Will It Rise?</i>
<b>Cyrus Khaleeli</b>	Ridgecrest Intermediate School	<b>Honorable Mention</b> J1706 Split group: -	<i>Effects of Weight Positioning on a Sailboats Speed</i>
<b>Nicholas Andriassian</b>	Chamlian Armenian School	<b>Honorable Mention</b> J1717 Split group: -	<i>At What Angle Does a Projectile Travel the Furthest?</i>
<b>PHYSICS - ELECTRICITY &amp; MAGNETISM (JR) J18</b>			
<b>Nolan Lautrette</b>	Millikan Middle School	<b>First Place</b> J1820 Split group: -	<i>Keep Calm and Shake it On</i>
<b>Thomas Maxfield</b>	Chandler School	<b>Second Place</b> J1831 Split group: -	<i>Exploring Magnetic Levitation</i>
<b>Jack Tierney</b>	St. Monica Academy (6th, 7th, 8th)	<b>Third Place</b> J1812 Split group: -	<i>Metal of Honor</i>
<b>Stanley Wong</b>	Huntington Middle School	<b>Honorable Mention</b> J1828 Split group: -	<i>Solar Panels: Orientations</i>
<b>Ryan Zerpa</b>	Pacific Hills School (Jr. Division)	<b>Honorable Mention</b> J1822 Split group: -	<i>Wireless Electricity and the Tale of Two Tesla Coils</i>
<b>Steven Conaway</b>	St. Monica Academy (6th, 7th, 8th)	<b>Honorable Mention</b> J1830 Split group: -	<i>The Comparison of Different Types of Artificial Light on Solar Panel Efficiency</i>
<b>Stanton Lee</b>	Portola Highly Gifted Magnet	<b>Honorable Mention</b> J1829 Split group: -	<i>Magnetic Linear Accelerator and The Conservation of Energy</i>
<b>Adam Lurvey</b>	Weizmann Day School	<b>Honorable Mention</b> J1801 Split group: -	<i>What Materials will Block Wi-Fi Signals the Best</i>



<b>Kris Sowattanangkul</b>	Science Academy: STEM School	<b>Honorable Mention</b> J1815 Split group: -	<i>Magnetism vs. Temperature</i>
<b>Xavier Marsh</b>	Blair Middle School	<b>Honorable Mention</b> J1833 Split group: -	<i>Do Different Materials Build up Better Static Electric Charges</i>
<b>Billy Nutt</b>	St. Martin of Tours School	<b>Honorable Mention</b> J1802 Split group: -	<i>Chill Out and Levitate</i>
<b>PHYSICS - GENERAL (JR) J19</b>			
<b>Justin An</b>	Ridgecrest Intermediate School	<b>First Place</b> J1934 Split group: A	<i>All About That Bass; The Effect of Different Frequencies Against Isopropyl Alcohol Fires</i>
<b>Hannah Kimura Patrick Choe Eric Lee</b>	Horace Mann Middle School	<b>Second Place</b> J1929 Split group: A	<i>How Fast Does a Tennis Ball Lose Its Bounce?</i>
<b>Daniel Gushchyan</b>	John Muir Middle School	<b>Third Place</b> J1916 Split group: A	<i>How do the Temperature and Length of Tube Affect the Speed of the Wind Produced?</i>
<b>Brooke Bauer</b>	Westridge School for Girls	<b>Honorable Mention</b> J1913 Split group: A	<i>Are Hot-Wheels Full of Potential?</i>
<b>Elliot Eaton Aidan King</b>	Mayfield Junior School of the Holy Child Jesus	<b>Honorable Mention</b> J1919 Split group: A	<i>Hops 4 Dayz</i>
<b>Nishita Dashpute</b>	Royal Oak Middle School	<b>Honorable Mention</b> J1942 Split group: A	<i>Which Cellular Activity Emits the Most Radiation?</i>
<b>Analisa Sack</b>	St. John Fisher School	<b>Honorable Mention</b> J1906 Split group: A	<i>Bad Blood: How Does the Size of Blood Splatter Correlate to the Distance from Which It Fell?</i>
<b>Emmie Fitz-Gibbon</b>	Walter Reed Middle School	<b>Honorable Mention</b> J1923 Split group: A	<i>Blood Dropping: How does the Way you Drop Blood Affect the Outcome?</i>
<b>Aram Petrosyan</b>	Ribet Academy (Jr. Division)	<b>Honorable Mention</b> J1911 Split group: A	<i>Modulated Frequency</i>
<b>Robert Grigorian</b>	Porter Ranch Community School	<b>Honorable Mention</b> J1944 Split group: A	<i>Coke and Mentos</i>

<b>Xiaoyue (Crystal) Jin</b>	Ribet Academy (Jr. Division)	<b>First Place</b> J1951 Split group: B	<i>Waves</i>
<b>Bella Gath</b>	St. Joseph School (Long Beach)	<b>Second Place</b> J1912 Split group: B	<i>Camera Obscura</i>
<b>Enzo Banal</b>	Walter Reed Middle School	<b>Third Place</b> J1924 Split group: B	<i>Breaking News: How Does the Design of a Bridge Affect the Weight it can Hold?</i>
<b>N'Dea Godwin</b>	Westridge School for Girls	<b>Honorable Mention</b> J1940 Split group: B	<i>Energy Transference: Kicking a Soccer Ball</i>
<b>James Pearce</b>	St. Joseph School (Long Beach)	<b>Honorable Mention</b> J1931 Split group: B	<i>Tennis Tension</i>
<b>Anica Lee</b>	San Gabriel Christian School	<b>Honorable Mention</b> J1909 Split group: B	<i>Light the World with Colors</i>
<b>Julia Osborne</b>	St. John Fisher School	<b>Honorable Mention</b> J1933 Split group: B	<i>Spin to Win: Spinning Into The Physics of Dance</i>
<b>Emma Robertson Genevieve Toji</b>	Intellectual Virtues Academy	<b>Honorable Mention</b> J1921 Split group: B	<i>Saturday Nut Fever</i>
<b>Andrew Rojas</b>	St. Timothy School	<b>Honorable Mention</b> J1908 Split group: B	<i>The Transfer of Power</i>

**PHYSICS (SR) S14**

<b>Alisa Hathaway</b>	Palos Verdes Peninsula High School	<b>First Place</b> S1401 Split group: -	<i>A Customized Directional Antenna System to Focus WiFi Signals on Variable Locations</i>
<b>Mark McDermott</b>	St. John Bosco	<b>Second Place</b> S1413 Split group: -	<i>A Comparison of Mechanical and Virtual Wind Tunnels</i>
<b>Evan Vail</b>	St. Anthony High School	<b>Third Place</b> S1406 Split group: -	<i>'Sounds' Good: Analyzing Far and Near Field Doppler Frequency Shifts</i>
<b>Clement Decker</b>	St. Monica Academy	<b>Honorable Mention</b> S1404 Split group: -	<i>Analyzing the Practicality of an Inexpensive Unbalanced Interferometric Experiment</i>

## PLANT BIOLOGY (JR) J20

<b>Otto Rahmel</b>	Sierra Canyon School	<b>First Place</b> J2040 Split group: A	<i>Algae Farm</i>
<b>Mona Patterson</b>	Sierra Madre Middle School	<b>Second Place</b> J2038 Split group: A	<i>How do Plants React to Different Types of Grey Water?</i>
<b>Daryan Daneshvar</b>	St. Martin of Tours School	<b>Honorable Mention</b> J2020 Split group: A	<i>Color Chromatography of Autumn Leaves</i>
<b>Lilly Roth-Shapiro</b>	Larchmont Charter School LaFayette Park	<b>Honorable Mention</b> J2034 Split group: A	<i>Cultivating Cacti</i>
<b>Elizabeth Rossi</b>	St. Timothy School	<b>Honorable Mention</b> J2023 Split group: A	<i>Hydroponics</i>
<b>Amelie Missig</b>	Walter Reed Middle School	<b>Honorable Mention</b> J2004 Split group: A	<i>Musical Germination</i>
<b>Dalia Elrih Camryn Clardy</b>	Larchmont Charter School LaFayette Park	<b>Second Place</b> J2018 Split group: B	<i>The New &amp; Affordable Alternative! Will Turmeric Treat Powdery Mildew?</i>
<b>Karly Condon Isabella LeSage</b>	American Martyrs School	<b>Third Place</b> J2031 Split group: B	<i>Farming With Fish</i>
<b>Ismael Al-Darsani</b>	ICC Community School	<b>Honorable Mention</b> J2026 Split group: B	<i>Synthetic vs. Natural: Are Inorganic Fertilizers More Effective Than Organic Fertilizers on Green Bean Germination and Growth?</i>

## PLANT BIOLOGY (SR) S15

<b>Titash Biswas</b>	Crescenta Valley High School	<b>First Place</b> S1509 Split group: -	<i>Drowning the California Drought: A Novel Approach of Combining Biochar and Gypsum to Improve Crop Yield</i>
<b>Anthony Castillo</b>	St. John Bosco	<b>Second Place</b> S1501 Split group: -	<i>The Effects of Seed Priming on the Germination and Seedling Vigor of Aged Yemeni Watermelon (Citrullus Lanatus) Landrace Seeds</i>
<b>Patrick Jackson Michael Garcia</b>	Don Bosco Technical Institute	<b>Third Place</b> S1508 Split group: -	<i>Transforming Plants</i>

<b>Austin Nash</b>	Palos Verdes High School	<b>Honorable Mention</b> S1503 Split group: -	<i>The Effect of Storm Drain Runoff on Giant Kelp Nutrient Availability</i>
<b>Antony Alvarado</b>	California Academy of Math & Science	<b>Honorable Mention</b> S1502 Split group: -	<i>Schwarzenegger's Beans: The Steroid Effect of Vitamins on Pinto Bean Growth</i>

**PLANT PHYSIOLOGY (JR) J21**

<b>Hafsa Khan</b>	Al Huda Islamic School	<b>Third Place</b> J2102 Split group: A	<i>The Antioxidant Mystery: The Effect of Antioxidants On Seed Germination</i>
<b>Nathan Segil</b>	Weizmann Day School	<b>Honorable Mention</b> J2105 Split group: A	<i>How Movement in Leaves is Controlled</i>
<b>Ian Kenneally</b>	St. Timothy School	<b>Honorable Mention</b> J2103 Split group: A	<i>The Greenest Greenhouse</i>
<b>Savannah House</b>	New Los Angeles Charter School	<b>First Place</b> J2106 Split group: B	<i>The Prosperous Environments of Plants: Part 2</i>

**PLANT PHYSIOLOGY (SR) S16**

<b>Ezekiel Soto</b>	California Academy of Math & Science	<b>Honorable Mention</b> S1601 Split group: -	<i>The Effect of Salinity on Rice Growth</i>
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**PRODUCT SCIENCE (JR) J22**

<b>Logan Dalton</b>	Portola Highly Gifted Magnet	<b>First Place</b> J2227 Split group: -	<i>Design and Evaluation of an EZ Tie Emergency Temporary Vascular Shunt</i>
<b>Faatima Zahra Motala</b>	Institute of Knowledge	<b>Second Place</b> J2216 Split group: -	<i>The Effects of a Brain Training Application on the Cognitive Flexibility of Participants who suffer from Diminishing Mental Abilities</i>
<b>Itai Koronyo</b>	The Rabbi Jacob Pressman Academy of Temple Beth Am	<b>Third Place</b> J2219 Split group: -	<i>Stopping the Clock for Fruits and Veggies</i>
<b>Julia Arem</b>	Westmark School	<b>Honorable Mention</b> J2224 Split group: -	<i>The Secret to Silver</i>
<b>Aleksa Jarasunas</b>	St. John Fisher School	<b>Honorable Mention</b> J2202 Split group: -	<i>Protect Those Eyes: Which Hat to Wear At the Beach On A Sunny Day</i>

<b>Elisa Win</b>	Al Huda Islamic School	<b>Honorable Mention</b> J2213 Split group: -	<i>Zap that Zit</i>
<b>Emily Banno</b>	Portola Highly Gifted Magnet	<b>Honorable Mention</b> J2214 Split group: -	<i>What Eggs-Actly Is the Most Eggs-Cellent Way to Preserve Eggs?</i>
<b>Abraham Dost</b>	Institute of Knowledge	<b>Honorable Mention</b> J2201 Split group: -	<i>Cool for the Summer</i>
<b>Benjamin Volokh Mason Shurman Siji Smolev</b>	Mirman School	<b>Honorable Mention</b> J2205 Split group: -	<i>Halt the Salt</i>
<b>Chloe Kim</b>	South Pasadena Middle School	<b>Honorable Mention</b> J2208 Split group: -	<i>Beating of My Heart</i>