



SAN MATEO COUNTY OFFICE OF EDUCATION



2017 Awards List

| Student Name(s) | Award | Special Award | Project Title | Grade | Category |
|---------------------------------|-------------------|-------------------------|--------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|
| Grace Hanna | 1st Place | | 50 Shades of Green | 5 | Behavioral Sciences |
| Kavita Vaish | 2nd Place | | Smiling Places | 5 | Behavioral Sciences |
| Cristal Lozano, Nane Tofavaha | 3rd Place | | Does Gender Affect Color Preference? | 5 | Behavioral Sciences |
| Michele Sukkestad | Honorable Mention | | Do hamsters run faster in the day or in the night | 5 | Behavioral Sciences |
| Eli Schlager | Honorable Mention | | Taste the Health! | 5 | Behavioral Sciences |
| Greta Sonnenschein | Honorable Mention | | Music and Math | 5 | Behavioral Sciences |
| Emma Bachrach, Akiko Tanaka | Honorable Mention | | Dog Therapy | 5 | Behavioral Sciences |
| Lauren Stoffel | 1st Place | | Does the storage temperature of bean seeds affect germination rates; growth and overall health of the plant? | 5 | Biological Sciences |
| Julian Jan Bergado | 2nd Place | | Worms React to: LIGHT and DARKNESS | 5 | Biological Sciences |
| Sanjana Hazari | Honorable Mention | | The Dirtiest Surface In The House | 5 | Biological Sciences |
| Josie Nelson | Honorable Mention | | Do dogs have unique paw prints like humans do? | 5 | Biological Sciences |
| Cailin Thompson, Abby Yim | Honorable Mention | | Which Temperature? | 5 | Biological Systems |
| Julia Lau | 1st Place | | Soda V.S. Teeth | 5 | Chemistry |
| Sach'a Romano | Honorable Mention | | The lemons ate my dessert! | 5 | Chemistry |
| Ava Stathacopoulos, Lexi Bredel | 1st Place | | Grow grow GROW Your Grass | 5 | Earth, Space, and Environmental Sciences |
| Samuel Virsik | 2nd Place | | The Impact of Three Different Variables on Fishing Success in the Florida Keys | 5 | Earth, Space, and Environmental Sciences |
| Angel Tinetti | 3rd Place | Outdoor Education Award | How do Conservation Biologists Know Which Places are Important to Protect? | 5 | Earth, Space, and Environmental Sciences |
| Aidan Land | 1st Place | | Watt's Up, Doc? Measuring the efficiency of model aircraft electric motors. | 5 | Engineering, Technology and Application of Science |
| Sabine Close | 2nd Place | | Bee-ware! Using surface waves to detect drowning bees | 5 | Engineering, Technology and Application of Science |
| Emanuel Gomez-Lopez | 3rd Place | | AIR PUMP PRESSURE | 5 | Engineering, Technology and Application of Science |
| Cristal Quezada, Sarah Veal | Honorable Mention | | Protecting Kepler; The Planet Hunter | 5 | Engineering, Technology and Application of Science |
| Edgar Lopez, Sergio Martinez | Honorable Mention | SEEC Award | Biomimicry; Boats and Whales | 5 | Engineering, Technology and Application of Science |
| Samina Ginwalla | 1st Place | | Slimey mess | 5 | Materials Science |

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| Maya Wohl | 2nd Place | | The Best Sunscreen! | 5 | Materials Science |
| Allyson Choy | 3rd Place | | The Best Container to Preseve Strawberries | 5 | Materials Science |
| Bevany Garcia | Honorable Mention | | What Type of Cup Keeps Hot Chocolate Warmest | 5 | Materials Science |
| Robinson Hirano | 1st Place | | The Art of the Shuffle | 5 | Math and Software |
| Danil Orlov | Honorable Mention | | Robocar II | 5 | Math and Software |
| Sina Kassayan | 1st Place | | Truly Organic "How to Use Organic Materials to Make a Battery" | 5 | Physics |
| Alina Tam | 2nd Place | | Noodle Power | 5 | Physics |
| Siddharth Chatterjee | 3rd Place | | Coefficient of Friction of a Toy Car on Different Surfaces | 5 | Physics |
| Jake Lopez, Aidan Vasquez | Honorable Mention | | How Fast Do Objects Travel Through Different Liquids | 5 | Physics |
| Lucas Inouye | Honorable Mention | | Earth's Gravity | 5 | Physics |
| Genevieve Holder-Rankin | Honorable Mention | | A Sip is a Siphon | 5 | Physics |
| Padraig Rogerson | Honorable Mention | | Hovercrafts | 5 | Physics |
| Griffin Reese | Honorable Mention | | Bridges | 5 | Physics |
| Colin Johnson, Calvin Lee | 1st Place | | Strategic Stroop | 6 | Behavioral Sciences |
| Leksi Chen | 2nd Place | | Which Time of Day are You Most Alert? | 6 | Behavioral Sciences |
| Epeli Pahulu | 3rd Place | | Does The Brightness of an iPhone Affect Your Eyesight | 6 | Behavioral Sciences |
| Grace Timons | Honorable Mention | | Rainbow Birds | 6 | Behavioral Sciences |
| Sarah Hansen | 1st Place | | Do Yeast Adapt to Environmental Stress Faster with an Increased Mutation Rate? | 6 | Biological Systems |
| Aarya Mukherjee | 2nd Place | | Plant Posture | 6 | Biological Systems |
| Justine Leparmentier | 3rd Place | | Flour Affecting Mold | 6 | Biological Systems |
| Justin Pretre | Honorable Mention | | It's Alive! Slime Mold Smarts | 6 | Biological Systems |
| Will Wolf | Honorable Mention | | The Human Body: Shocking!! | 6 | Biological Systems |
| Alexis MacAvoy | Honorable Mention | | Totally Transformation! | 6 | Biological Systems |
| Ron Freeman | Honorable Mention | | A Comparison of a Gluten-Rich Diet Rich Diet and a Sugar-Rich Diet on the Oral Biofilm | 6 | Biological Systems |
| Nicholas Kwok, Christopher Kwok | Honorable Mention | | Need A Drink? | 6 | Biological Systems |
| Reece Borrmann | 1st Place | | Prolong The Produce | 6 | Chemistry |

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| Maxwell McReynolds | 2nd Place | | Counting Calories? Fuel Fitness | 6 | Chemistry |
| CC Shaw | 3rd Place | | Horton Likes It Hot! | 6 | Chemistry |
| Samantha Snailer, Sarah Yu | Honorable Mention | | Glucose Control | 6 | Chemistry |
| Sophia Dugoni | Honorable Mention | | What an Iron'ic Breakfast | 6 | Chemistry |
| Taylor Davis | Honorable Mention | | Think Before You Drink | 6 | Chemistry |
| Zara Ainge | 1st Place | | Watch Out! | 6 | Earth, Space, and Environmental Sciences |
| Kira Jones | 2nd Place | | Coquina Clams in the Waves: Size and Surfing? | 6 | Earth, Space, and Environmental Sciences |
| Jewell Hofmann | 3rd Place | | Do Lawn And Garden Products Affect Living Organisms? | 6 | Earth, Space, and Environmental Sciences |
| Peyton De Winter, Brian Cao | Honorable Mention | | The Greenhouse Effect | 6 | Earth, Space, and Environmental Sciences |
| ryan holoyda | Honorable Mention | RAFT Award | Kan the k-cup | 6 | Earth, Space, and Environmental Sciences |
| Malia Loo | | Resource Conservation Award | Mulching Earth | 6 | Earth, Space, and Environmental Sciences |
| Charlotte Sullivan | 1st Place | | Robots to the Rescue | 6 | Engineering, Technology and Application of Science |
| Alec Arnow | 2nd Place | | Football Bash | 6 | Engineering, Technology and Application of Science |
| Liam Gould, Rowan Tarpinning | 3rd Place | | Plane vs. Plane | 6 | Engineering, Technology and Application of Science |
| Pilar Vanheusden | 1st Place | | Artificial Turf: The Heat Is On! | 6 | Materials Science |
| Tobey Miner | 2nd Place | | Does Sunblock Really Matter | 6 | Materials Science |
| Ava Mendoza | 3rd Place | | The Skinny on Moisturizers | 6 | Materials Science |
| Isabel Molnar | Honorable Mention | | Fastest to Slowest; Wettest to Driest: Which Fabric Wins? | 6 | Materials Science |
| Brooke Dombkowski | 1st Place | | Switchcraft | 6 | Math and Software |
| Houjun Liu | 2nd Place | | Overclocking a Raspberry Pi | 6 | Math and Software |
| Bishista Paul, Quingyang Chen | 3rd Place | | Which browser runs JavaScript fastest? | 6 | Math and Software |
| Linus Upson, Georgia Hutchinson | 1st Place | | It Came From Outer Space | 6 | Physics |
| Zackary Tuzar | 2nd Place | | Resistance; It's A Real Drag (The ffects of Air Resistance) | 6 | Physics |
| Marissa Abaya | 2nd Place | | Go With the Flow | 6 | Physics |
| Gabriel Berger | 3rd Place | | Three. Two. One. SPLAT! | 6 | Physics |

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| August Parker | Honorable Mention | | Spin Or No Spin | 6 | Physics |
| Tucker Masnik | Honorable Mention | | A Boy's Guide to Ruining Your Wireless Signal (and Bluetooth too!) | 6 | Physics |
| Liam Mason | 1st Place | | To Wear or Not to Wear | 7 | Behavioral Sciences |
| Maria-Luisa David | 2nd Place | | Uncapping the truth; how effective are childproof caps? | 7 | Behavioral Sciences |
| Nathan Choi | 3rd Place | | Dominant vs non Dominant Hand | 7 | Behavioral Sciences |
| Seamus Mohan | 3rd Place | | Fontastic-the impact of font style on reading speed and comprehension | 7 | Behavioral Sciences |
| Manya Goutam | Honorable Mention | | Neuro Sniffer: An iOS App to study the effect of Daily Activities on ADHD | 7 | Behavioral Sciences |
| Olivia Cevasco | 1st Place | | Diabetes; A Bloody Mess; Non-Invasive Glucose Testing | 7 | Biological Systems |
| Kathleen Virsik | 1st Place | | Enhanced Heptyl Butyrate Attractants for Western Yellowjackets (<i>Vespula pensylvanica</i>) | 7 | Biological Systems |
| Sarah Ryu, Grace Bargar | 3rd Place | Sage Award | Microbial Energy | 7 | Biological Systems |
| Kate Conti | Honorable Mention | | Mari; Mari How will your Garden Grow? | 7 | Biological Systems |
| Iliana Close | Honorable Mention | | Exploring the Effect of Birth Month in Rare Diseases | 7 | Biological Systems |
| Marco Lenzi, Darren Shen | Honorable Mention | | How tiny nematodes react to plants in your garden | 7 | Biological Systems |
| Callisto Lodwick | Honorable Mention | | The Effects of Different Liquid Consumption on the Amount; pH and Specific Gravity of Urine | 7 | Biological Systems |
| Kalin Baca | 1st Place | | Enzyme; Break it Down! How does temperature affect the rate of reaction of catalase? | 7 | Chemistry |
| Yossi Moff | 2nd Place | | pHenomenal Conductivity | 7 | Chemistry |
| Heather Galles, Emily Xiao | 3rd Place | | Rocketology | 7 | Chemistry |
| Jaena Almario | Honorable Mention | | Don't Sugar Coat It! The Truth About Glucose | 7 | Chemistry |
| Isabela Sugden | 1st Place | | The Bright Side Of Bacteria | 7 | Earth, Space, and Environmental Sciences |
| Thomas Cevasco | 2nd Place | | Is the Fresh Air Killing You? Radon: A Deadly Gas | 7 | Earth, Space, and Environmental Sciences |
| Josh Koe | 3rd Place | | Soapy Oceans? | 7 | Earth, Space, and Environmental Sciences |

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| Marlene ArroyoRosas, Roselyn Rosas Sotelo | Honorable Mention | | Plants? No Plants? | 7 | Earth, Space, and Environmental Sciences |
| Natalie Dean | 1st Place | | Take My Hand: What Does a Simple; Low-cost; 3D-printed Design for an Automated Robotic Hand Look Like? | 7 | Engineering, Technology and Application of Science |
| Kaelyn Luebke | 2nd Place | | Cool Idea; Hot Topic: Pulsing to power your Inner Self: Optimizing Personal temperature management | 7 | Engineering, Technology and Application of Science |
| Benjamin Mackie | 3rd Place | | Pedal For Purity | 7 | Engineering, Technology and Application of Science |
| Ian Motuliki, TRIPLET | Honorable Mention | | The Charger Eater | 7 | Engineering, Technology and Application of Science |
| Matthew Spink | Honorable Mention | | True Green Hydro | 7 | Engineering, Technology and Application of Science |
| Genevieve Bigue | | Energy Conservation Award | Homemade Hydropower: Converting Wastewater Into Clean Energy | 7 | Engineering, Technology and Application of Science |
| Jack Collins | 1st Place | | The Shear Strength of Velcro | 7 | Materials Science |
| Charlotte Kearns | 2nd Place | | Lies Told By Fries: Mold Growth on French Fries | 7 | Materials Science |
| Elizabeth Leahy | 3rd Place | | Acne Avengers | 7 | Materials Science |
| Emma Steadman | 3rd Place | | The cookie sheet bake-off | 7 | Materials Science |
| Sophia Dinelli, Katelyn Quon | Honorable Mention | | Gerbusters! | 7 | Materials Science |
| Keira Swei | Honorable Mention | | Gluten Free Bread Deconstructed | 7 | Materials Science |
| Amelia Forrest | 1st Place | | Electric Pressure | 7 | Physics |
| Douglas Lariviere | 2nd Place | | Wing It | 7 | Physics |
| Thomas Jadallah | 3rd Place | | Sound-Go-Round | 7 | Physics |
| Ona Weinert | Honorable Mention | | The Effects of Thermal Stress; The Prince Rupert's Drop | 7 | Physics |
| Nick Davis | Honorable Mention | | Can Gas Bubbles Sink Ships? | 7 | Physics |
| Gigi Pistilli | Honorable Mention | | A Full Spectrum | 7 | Physics |
| Xulian Romano | 1st Place | | Is a Picture Worth 1000 Words?: Written vs. Pictorial Input | 8 | Behavioral Sciences |
| Luci Lambert | 2nd Place | | That's A Stylin' Learning Style | 8 | Behavioral Sciences |
| Madeleine Beckner | 3rd Place | | Risky Personalities | 8 | Behavioral Sciences |
| Ren Terwey | Honorable Mention | | Can Illegal Courtesy Make Overall Traffic Congestion Worse? | 8 | Behavioral Sciences |
| Sara Sprankle | Honorable Mention | | Conformity | 8 | Behavioral Sciences |

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| Lyndsey Huss | 2nd Place | | The sweet yeast has risen | 8 | Biological Systems |
| Julia Granucci | 2nd Place | SMC Best Theme Award | Flip The Switch and "Lettuce" Get Growing | 8 | Biological Systems |
| Sophia Qin | 3rd Place | | Plants Saving the World | 8 | Biological Systems |
| Harrison Nash | Honorable Mention | | Salination Germination | 8 | Biological Systems |
| Yasmine Tarkiainen | Honorable Mention | | How Cool is Your Horse? | 8 | Biological Systems |
| Sophia Bodas | Honorable Mention | | Hovering Hummingbirds | 8 | Biological Systems |
| Emily Engelkemier, Sophie McCreary | Honorable Mention | | 5 Second Rule | 8 | Biological Systems |
| Lauren Peters | Honorable Mention | | Seeds in Motion | 8 | Biological Systems |
| Aracely Lopez, Maria Reyna | Honorable Mention | | Hand Temperature | 8 | Biological Systems |
| Yo-Jin Dittrich-Tilton | 1st Place | | Measuring Surface Tension of Different Liquids | 8 | Chemistry |
| Michaela Cornejo, Aretha Chen | 2nd Place | | The Dissolution of Allergy Antihistamines in Simulated Stomach Acid | 8 | Chemistry |
| Roshni Sahu, Varsha Thalladi | 2nd Place | | Ledy Lead Lead | 8 | Chemistry |
| Abigail Wong | 3rd Place | | The Influence of Airflow on the Cooling Efficiency of Evaporative Refrigerators | 8 | Chemistry |
| Eden Davison | 1st Place | | The Best Method of Desalination | 8 | Earth, Space, and Environmental Sciences |
| Marjorie McKusick | 2nd Place | Resource Conservation Award | Can Mealworms Help Save Our Planet? | 8 | Earth, Space, and Environmental Sciences |
| Emily Clarke | 3rd Place | | Plankton vs. Global Warming | 8 | Earth, Space, and Environmental Sciences |
| Amanda Wang | Honorable Mention | | A Blanket Around Our Earth | 8 | Earth, Space, and Environmental Sciences |
| Dayton Lindsey | | Water Conservation Award | How green do you clean? | 8 | Earth, Space, and Environmental Sciences |
| chase robertson | | Outdoor Education Award | Tide Pools: Marine Reserve Vs. State Beach | 8 | Earth, Space, and Environmental Sciences |
| Georgia Butler | 1st Place | | A Magnetic Surfboard. Will Sharks Be Lured Or Perturbed? | 8 | Engineering, Technology and Application of Science |
| Ethan Lau | 2nd Place | | New Health Transport for Third World Countries | 8 | Engineering, Technology and Application of Science |
| Christopher Luey | 2nd Place | | Water Diverter | 8 | Engineering, Technology and Application of Science |
| Jacopo Omodei | 3rd Place | | Cosmic Rays | 8 | Engineering, Technology and Application of Science |

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| Gwinna Putz | Honorable Mention | | Get Amped On the Surf! | 8 | Engineering, Technology and Application of Science |
| Daniel Kazarian | Honorable Mention | | Walkabout | 8 | Engineering, Technology and Application of Science |
| Addison Ahlstrom | 1st Place | SEEC Award | Solar Power for a Bright Future | 8 | Materials Science |
| Violet Taylor, Rebekah Lindsay | 2nd Place | | Fabric Flammability | 8 | Materials Science |
| Julia Torrey | 3rd Place | | Demolish the Polish | 8 | Materials Science |
| Alexander McDowell | 1st Place | | Neural Espionage: Can Adversarial Neural Networks learn to apply encryption to images? | 8 | Math and Software |
| Nicholas Way | 2nd Place | | Creating Objects with Fractional Dimensions | 8 | Math and Software |
| Francis Young-Tayag | 3rd Place | | Password Security | 8 | Math and Software |
| Nicholas Fish | 1st Place | | Quantum Levitation | 8 | Physics |
| Ricky Johnston | 2nd Place | | Estimating Drag Force on a Sail Boat Hull using a 1/20 Scaled Model | 8 | Physics |
| Logan Noworolski | 3rd Place | | Bottle Flip 101 | 8 | Physics |
| Randall Liu | Honorable Mention | | Heating Up Hydraulics | 8 | Physics |
| Jacob Burrill | Honorable Mention | | Deflate Gate | 8 | Physics |
| Frank Liu, Benjamin An | 1st Place | | Effect of B1BR1532 and Glucose/Glutamine Restriction on Cell Viability in HT1080 and MCF7 | HS | Biological Systems |
| Helen Gordan | 1st Place | ISEF | Investigating Saccadic Eye Movements During a Tablet-Based Neurological Test | HS | Biological Systems |
| Kevin Bryan | 2nd Place | | Analysis of Coliform Levels in San Mateo Lagoons and Waterways | HS | Biological Systems |
| Ben Cheng | 2nd Place | | Creating a More Efficient Cellulase for Biofuel Production | HS | Biological Systems |
| Alan Wu | 2nd Place | | Grape skin powder mediates mitochondria function by autophagy activation and exhibits potential protective benefit in a Drosophila Parkinson's Disease Model | HS | Biological Systems |
| Hunter Crawford-Shelmadine | 2nd Place | | Daphnia magna; Multiple Toxicants; & A New Clean Environment Can Daphnia magna Survive after Exposure to LD50 Levels? | HS | Earth, Space, and Environmental Sciences |
| Owen Convery, Jamie Wang | Honorable Mention | | Water Conservation in the Home | HS | Earth, Space, and Environmental Sciences |

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| Patrick Kao | 2nd Place | | Developing an Interceptor Drone for Area Protection | HS | Engineering, Technology and Application of Science |
| Ed van Bruggen, Austin Hartman | 2nd Place | | Know Your AGE; Measuring Advanced Glycation End-products in Your Skin | HS | Engineering, Technology and Application of Science |
| Elizabeth Kravtchenko | Honorable Mention | | Crank it up! Finding the optimal crank arm length | HS | Engineering, Technology and Application of Science |
| Sakina Bambot | 2nd Place | | Study of the Degradation Mechanism of Contact Lenses: Investigation Using TOF-SIMS | HS | Materials Science |
| Marcus Luebke | 1st Place | SMC Best Theme Award | Running on Water: Coding Coatings | HS | Math and Software |
| John Kim | 2nd Place | | EmNet: Emotion Recognition from Human Voice Using Machine Learning for Affective Computing | HS | Math and Software |
| Andrew Land | 2nd Place | | Measuring Planck's Constant: Adventures in Watt Balance Land | HS | Physics |