

2019 California Science & Engineering Fair - Qualified Projects

**The following students in grades 6-12 were selected to represent Santa Cruz County
at the California Science & Engineering Fair April 29-30, 2019
at the CA Science Center in Los Angeles**

First Name	Last Name	School	Project Title
Sae	Ackerstein	Mission Hill MS 6-8	Warming Seas, Warmer Seals: How Different Seal Species Thermoregulate
Lyra	Alers	Scotts Valley MS 6-8	Two problems with one brick
Daniel	Alivov	Scotts Valley MS 6-8	Dancing, Obstacle Avoiding, and Road Following Self-Driving Car
Diana	Alivov	Scotts Valley MS 6-8	Dancing, Obstacle Avoiding, and Road Following Self-Driving Car
Christopher	Anderson	San Lorenzo Valley HS 9-12	What the Fungus is Happening to the Sea Stars?
Vivienne	Barrett	Pacific Collegiate Charter 7-12	Hydraulic Powered Robotic Arm
Konish	Bhattacharya	Gateway ES	Green Synthesis of Silver Nanoparticles Using Asparagus Extract and Their Use as Antibacterial Agent
Brendan	Byrne	Good Shepherd Catholic	Double
Trevor	Cambron	San Lorenzo Valley HS 9-12	Trails, Soil, and SOD
Maxwell	Chen	Georgiana Bruce Kirby Prep.	H2O Science: How to Generate Hydrogen From Water?
Alan	Chen	Santa Cruz HS 9-12	Colorimetric Detection of Toxic Heavy Metal Ions by Gold Nanoparticles
Salvatore	Deguara	San Lorenzo Valley HS 9-12	Exploration of French Broom Control and its Effect on the Santa Cruz Sandhills Environment
Gabriella	Dow	Mar Vista ES K-6	Using Calcium to Combat Acid Rain!?
Ruby	Evans	San Lorenzo Valley MS 6-8	Do Plants Absorb Microplastics?
Jessica	Fairlie	Santa Cruz HS 9-12	Rock Armor, or Rubble? Preventing Coastal Erosion
Ingrid	Feague	Spring Hill Advanced ES	Taming Coulomb
Vivian	Feldheim	Santa Cruz HS 9-12	Rock Armor, or Rubble? Preventing Coastal Erosion
Landon	Fernald	Baymonte Christian	Is It Possible To Build A Fireproof House?
Lenora	Freeman	Baymonte Christian	Sea Star Density: pH verses Tide Level
Elias	Gilbert	Santa Cruz HS 9-12	Defining the Function of a Curve in an Image with Graphical Analysis and Model Selection

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Damian	Goodenough	San Lorenzo Valley HS 9-12	Exploration of French Broom Control and its Effect on the Santa Cruz Sandhills Environment
Abigail	Goodman	Pacific Collegiate Charter 7-12	Stay Cool Under Fire
Kayla	Goodwin	Bonny Doon ES K-6	How do various types of table tennis balls differ in bounce height?
Maxwell	Gross	Pacific Collegiate Charter 7-12	How Proximity to a Surface Affects Lift of an Aircraft
Jared	Henderson	Gateway ES	The Affect of Different Materials on Particle Decay From a Radioactive Source
Jack	Jensen	Gateway ES	Going Undercover To Save a Precious Resource
Heather	Lee	Burlingame High School	Supporting the Notion that Nanopipette Injection is an Accurate and Reliable Method for Multiplexed Genetic Editing
Katelyn	Lozier	San Lorenzo Valley HS 9-12	What the Fungus is Happening to the Sea Stars?
Tessa	Marks	Harbor HS 9-12	Climate Change's Dangerous Influence On Lyme Disease
Andrew	Nazareth	Georgiana Bruce Kirby Prep.	Predicting the Presence of Pneumonia in Chest X-rays using Deep Learning with Convolutional Neural Networks
Michelle	Nazareth	Georgiana Bruce Kirby Prep.	RNA Regulation: Identifying and Preventing AMP Depurination in Early Life RNA Polymerization
Rinoa	Oliver	Georgiana Bruce Kirby Prep.	Factors Affecting California Science and Engineering Fair Results
Natalie	Owens	San Lorenzo Valley HS 9-12	Trails, Soil, and SOD
Dilan	Patel	Carmel High School	Supporting the Notion that Nanopipette Injection is an Accurate and Reliable Method for Multiplexed Genetic Editing
Joseph	Pelz	Gateway ES	The Effect of Suspension on Jumping a Mountain Bike
Lydia	Richards	Twin Lakes Christian	Total Recall
Emily	Ritter	Good Shepherd Catholic	Give and take
Celeste	Robinson	San Lorenzo Valley HS 9-12	What the Fungus is Happening to the Sea Stars?
Flynn	Rorty	Mission Hill MS 6-8	Starch Struck: the Effect of Dietary Amylase on Starch Digestion
Phoenix	Rumbaugh	Alternative Family Education	Yucca versus a Cyanobacteria
Nicholas	Saldavia	Holy Cross	Fallen Arches: The Surprising Strength of Eggshells

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Emma	Schaefer-Whittall	Scotts Valley HS 9-12	Something's Fishy
Evelyn	Schilling	Good Shepherd Catholic	Double
Griffin	Short	Salesian Elementary & Jr. High	Shock Fluids
Sarah	Stockmanns	Holy Cross	The Flexibility of Casein Plastic
Simone	Sutton	San Lorenzo Valley HS 9-12	Effects of the Seasons on the Abundance of Sand Crabs
Mackenzie	Swenson-Thole	Harbor HS 9-12	Climate Change's Dangerous Influence On Lyme Disease
Brett	Swertfager	Mar Vista ES K-6	Phytoplankton Growth: Are Terrestrial Fertilizers the Answer?
Luke	Tanguay	Pacific Collegiate Charter 7-12	Do Environmentally Friendly Dish Soaps Clean Oil Off Feathers as Well as Dawn?
Ming	Triulzi	San Lorenzo Valley HS 9-12	Effects of the Seasons on the Abundance of Sand Crabs
Jasmine	VanRenselaar	Ocean Grove	A Heating Pad that Stays Warm
Isaac	Wallace-Menge	San Lorenzo Valley HS 9-12	Supporting the Notion that Nanopipette Injection is an Accurate and Reliable Method for Multiplexed Genetic Editing