



**2023 Contra Costa County Science & Engineering Fair
PROJECT PLACEMENTS & SPECIAL AWARDS**

**SENIOR DIVISION GRAND SWEEPSTAKES WINNERS (9th - 12th Grades)
and INTERNATIONAL SCIENCE & ENGINEERING FAIR FINALISTS**

**These projects will represent CCCSEF at the Regeneron International Science & Engineering Fair (ISEF)
to be held May 14-19, 2023 in Texas.**

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Engineering	10	FEmale: A Diagnostic and Evaluation System for Iron Deficiency and Anemia in Teenage Girls due to their Menstrual Cycle	Krishna Singhani	Monte Vista High School	International Science & Engineering Fair, California Science & Engineering Fair, Bio-Rad \$500, Martinez Refining Company Safety Award \$500
Environmental	11	The Effect of Neonicotinoids on the Positive Transfer of Learning in the Visual Domain of Honeybees	Charisse Zou	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,000
Math/Computer Science	12	CLAMP: A Contrastive Language And Molecule Pre-training Network for Scaling Artificial Photosynthesis Candidate Identification	Neel Redkar	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,500, Martinez Refining Company Safety Award \$500

JUNIOR DIVISION GRAND SWEEPSTAKES WINNERS (7th-8th Grades)

**These students are eligible to compete for a place at the
Thermo Fisher Junior Innovators Challenge held in October 2023 in Washington, DC.**

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	8	Think Fast!	Michael Suacillo	St. Patrick School	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Biological	7	Here We Grow Again	Caleb Sunia	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair
Environmental	7	Bamboo Versus Paper: Which Straw is Better?	Ella Abbott	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award

**California Science & Engineering Fair Finalists
(Only 18 are selected for this honor.)**

The California Science & Engineering Fair will be held virtually April 11, 2023.

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	7	Take a Breather	Sofia Seiden Tyler Militar-Cross	St Patrick School	California Science & Engineering Fair
Behavioral	8	Think Fast!	Michael Suacillo	St. Patrick School	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Behavioral	11	Impact of Parental Pressure on Self-Efficacy, Self-Esteem, and Academic Success	Bilva Vedamurthy	Monte Vista High	California Science & Engineering Fair, American Psychological Association Award
Biological	7	Here We Grow Again	Caleb Sunia	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair
Biological	9	Predicting Propensity for Obesity Using Machine Learning Models	Anirudh Ayyadevara	Dougherty Valley High	California Science & Engineering Fair
Biological	10	Sources of Microplastics in Local Beehives	Marcus Kauffman	De La Salle High	California Science & Engineering Fair, Dr. David Padgett Award \$100
Biological	12	How do copper levels manipulated in water affect Ramshorn snail reproduction/survival at which the level will curb reproduction safety for other invertebrates?	Ginessa Colombana	Carondelet High	California Science & Engineering Fair
Engineering	8	Sun-Tracking Solar Panel	Jonas Desyatnik	Joaquin Moraga Intermediate School	California Science & Engineering Fair, Mt. Diablo Amateur Radio Club \$200, US Air Force (backpack)
Engineering	9	Unmanned Mobile Marine Weather Vessel for Assessing Marine Conditions and Analyzing Local Weather Pattern Changes	Lucas Katz-Carreno	Campolindo High	California Science & Engineering Fair, Henkel \$250, National Geographic Award
Engineering	10	FEfemale: A Diagnostic and Evaluation System for Iron Deficiency and Anemia in Teenage Girls due to their Menstrual Cycle	Krishna Singhani	Monte Vista High School	International Science & Engineering Fair, California Science & Engineering Fair, Bio-Rad \$500, Martinez Refining Company Safety Award \$500
Engineering	11	Origami Parachutes: A Tessellated Solution to Natural Disaster Rescue	Alan Fang	Monte Vista High School	California Science & Engineering Fair, Naval Science Award \$50, Robert Markinson Award \$100, US Air Force (backpack)
Environmental	7	Bamboo Versus Paper: Which Straw is Better?	Ella Abbott	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Environmental	10	Deep Learning for Real-Time Detection of Trash in Scene Images	Vedant Kathrani	Dougherty Valley High	California Science & Engineering Fair, Mt. Diablo Resource Recovery \$250
Environmental	11	The Effect of Neonicotinoids on the Positive Transfer of Learning in the Visual Domain of Honeybees	Charisse Zou	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,000
Math/Computer Science	9	Lend me your ear! - Real-time Speech Separation and Enhancement using Deep Neural Networks	Ananya Raghu Anisha Raghu	Quarry Lane School	California Science & Engineering Fair, Diane Gelinser Award \$100, Katherine Johnson Award \$100, Martinez Refining Company Safety Award \$500

Math/Computer Science	12	CLAMP: A Contrastive Language And Molecule Pre-training Network for Scaling Artificial Photosynthesis Candidate Identification	Neel Redkar	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,500, Martinez Refining Company Safety Award \$500
Physical	11	Shedding Light: An Posterateur Student-Based Analysis of Unconfirmed Exoplanet Candidates	William Lee	Deer Valley High	California Science & Engineering Fair
Physical	12	Andromeda's My-star-y: Nova Brightness vs. Location	Ryma Ouramdane Liezyl Catahan	Deer Valley High	California Science & Engineering Fair, Association for Women Geoscientists, US Metric Association

Thermo Fisher Junior Innovators Challenge FINALISTS
These students are eligible to compete for a place at the
Thermo Fisher Junior Innovators Challenge October 2023 in Washington DC.

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	8	Think Fast!	Michael Suacillo	St. Patrick School	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Biological	7	Here We Grow Again	Caleb Sunia	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair
Environmental	7	Bamboo Versus Paper: Which Straw is Better?	Ella Abbott	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award

FIRST PLACE AWARDS

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	7	Take a Breather	Sofia Seiden Tyler Militar-Cross	St Patrick School	California Science & Engineering Fair
Behavioral	8	Think Fast!	Michael Suacillo	St. Patrick School	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Behavioral	11	Impact of Parental Pressure on Self-Efficacy, Self-Esteem, and Academic Success	Bilva Vedamurthy	Monte Vista High	California Science & Engineering Fair, American Psychological Association
Biological	7	Here We Grow Again	Caleb Sunia	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair
Biological	9	Predicting Propensity for Obesity Using Machine Learning Models	Anirudh Ayyadevara	Dougherty Valley High	California Science & Engineering Fair
Biological	10	Sources of Microplastics in Local Beehives	Marcus Kauffman	De La Salle High	California Science & Engineering Fair, Dr. David Padgett Award \$100
Biological	12	How do copper levels manipulated in water affect Ramshorn snail reproduction/survival at which the level will curb reproduction safety for other invertebrates?	Ginessa Colombana	Carondelet High	California Science & Engineering Fair
Engineering	8	Sun-Tracking Solar Panel	Jonas Desyatnik	Joaquin Moraga Intermediate School	California Science & Engineering Fair, Mt. Diablo Amateur Radio Club \$200, US Air Force (backpack)
Engineering	9	Unmanned Mobile Marine Weather Vessel for Assessing Marine Conditions and Analyzing Local Weather Pattern Changes	Lucas Katz-Carreno	Campolindo High	California Science & Engineering Fair, Henkel \$250, National Geographic Award

Engineering	10	FEmale: A Diagnostic and Evaluation System for Iron Deficiency and Anemia in Teenage Girls due to their Menstrual Cycle	Krishna Singhani	Monte Vista High School	International Science & Engineering Fair, California Science & Engineering Fair, Bio-Rad \$500, Martinez Refining Company Safety Award \$500
Engineering	11	Origami Parachutes: A Tessellated Solution to Natural Disaster Rescue	Alan Fang	Monte Vista High School	California Science & Engineering Fair, Naval Science Award \$50, Robert Markinson Award \$100, US Air Force (backpack)
Environmental	7	Bamboo Versus Paper: Which Straw is Better?	Ella Abbott	Northcreek Academy	Thermo Fisher JIC, California Science & Engineering Fair, Naval Science Award
Environmental	8	The Air We Breathe	Rhianna Jane Lope	St. Patrick School	
Environmental	10	Deep Learning for Real-Time Detection of Trash in Scene Images	Vedant Kathrani	Dougherty Valley High	California Science & Engineering Fair, Mt. Diablo Resource Recovery \$250
Environmental	11	The Effect of Neonicotinoids on the Positive Transfer of Learning in the Visual Domain of Honeybees	Charisse Zou	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,000
Math/Computer Science	9	Lend me your ear! - Real-time Speech Separation and Enhancement using Deep Neural Networks	Ananya Raghu Anisha Raghu	Quarry Lane School	California Science & Engineering Fair, Diane Gelinser Award \$100, Katherine Johnson Award \$100, Martinez Refining Company Safety Award \$500
Math/Computer Science	12	CLAMP: A Contrastive Language And Molecule Pre-training Network for Scaling Artificial Photosynthesis Candidate Identification	Neel Redkar	Dougherty Valley High	International Science & Engineering Fair, California Science & Engineering Fair, Chevron \$1,500, Martinez Refining Company Safety Award \$500
Physical	11	Shedding Light: An Posterateur Student-Based Analysis of Unconfirmed Exoplanet Candidates	William Lee	Deer Valley High	California Science & Engineering Fair
Physical	12	Andromeda's My-star-y: Nova Brightness vs. Location	Ryma Ouramdane Liezyl Catahan	Deer Valley High	California Science & Engineering Fair, Association for Women Geoscientists, US Metric Association

SECOND PLACE AWARDS

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	7	Studying Caffeine	John Chiappelone	Northcreek Academy	
Behavioral	7	Colors' Scheme	Mason Brooks	Northcreek Academy	
Behavioral	7	When You are Chewing, Straight A's are Brewing!	Alexandra Milne	Northcreek Academy	
Behavioral	7	Lowering Heart Rates	Beckett Hurrey	Iron Horse Middle	
Behavioral	8	Classical Conditioning: Uncovering the Truth	Chloe Zatezalo	St. Patrick School	
Behavioral	10	A Novel Tool To Reduce ADHD Misdiagnosis	Sania Bidurukontam	Dougherty Valley High	
Biological	7	The Plant of Immortality	Anastasia Lobastova	Northcreek Academy	US Agency for International Development Award
Biological	7	Don't Have to Much Fun in the Sun	Wynterlyn Corpuz Jocelyn Martinez	St. Patrick School	

Biological	8	Nicotinamide Adenine Dinucleotide (NAD+) and DNA repairing in plants	Viviana Sanchez	Joaquin Moraga Intermediate School	
Biological	8	Finding the Best Heartburn Remedies	Arnav Shinde	Joaquin Moraga Intermediate School	
Biological	10	Exploring the Effect of Curcumin on E. coli Growth as a Tool to Battle Diarrheal Disease in Developing Countries	Srishreya Arunsaravanakumar	Dougherty Valley High	CCC Water/Waste Water Agencies \$250
Biological	10	A Machine Learning Approach to the Identification of Novel Pathogenic Bacteria Based on 16S rRNA Sequences	Anya Iyer	Dougherty Valley High	
Biological	11	The Efficacy of Commercial Probiotics on Inhibiting the Growth of Pathogens	Oshin Rex	California High	
Biological	11	High-Class Hydrogen: Optimizing Hydrogen Production by Altering Growing Conditions of Arthrospira Platensis	Rachel Kimball	Carondelet High	
Biological	11	A Novel Bioinformatics Approach for Drug Discovery: Using intersection genes to evaluate the therapeutic targets of Vitamin D3 in patients with Lung Squamous Cell Carcinoma and Covid-19	Anthony Chan	Monte Vista High	
Biological	11	GI Cancer Test from CTCF Binding Mutations	Akshat Ubale	Dougherty Valley High	
Biological	11	Altered Temporal and Visual Resting State Network Biomarkers in Early Parkinson's Disease	Neel Kondapalli	Dougherty Valley High	
Engineering	7	Fire detection using Arduino based controller	Krish Siva	Windermere Middle	
Engineering	8	Recycled Earthquake Resistant Portable Living Units	Ivana Garcia-Estevez	Northcreek Academy	
Engineering	9	Backbone Posture Corrector	Shiraz Zahoori	Campolindo High	John Henry Award \$100
Engineering	10	Antra	Varnika Sirasala	Dougherty Valley High	
Engineering	11	A Multistage Classification Model for Early Detection of Non-Small Cell Lung Cancer (NSCLC)	Nidhi Gaonkar	Dougherty Valley High	
Engineering	11	LewyScan - A deep learning approach to primary diagnosis between Dementia with Lewy Bodies In Alzheimer's Disease and Lewy Body Dementia using a parameter efficient convolutional model that uses genetic biomarkers and MRI data	Gatik Trivedi Satwik Panigrahi	Dougherty Valley High	
Environmental	7	Radish's Favorite Soil	Giovanni Torres	St. John the Baptist School	
Environmental	9	Mini Home Desalination Plant	Pranathi Suserla	Dougherty Valley High	CCC Water/Waste Water Agencies \$75, Naval Science Award \$50, US Stockholm International Water Institute Junior Water Prize
Environmental	10	How Sodium Nitrate Fertilizer Effects The Oxygen Production Rate of Elodea	Amisha Reddy Sadhika Pendyala	The Quarry Lane School	

Environmental	10	Using Nuclear Magnetic Resonance Spectroscopy (NMR) to evaluate Metabolites for Plant Growth and Maturation	Rishav Saravanan	Dougherty Valley High	
Environmental	10	The degradation of polyethylene using Wax Worms (Galleria Mellonella)	Noah Wilson	De La Salle High School	Society for In Vitro Biology Award
Environmental	11	Use of Endomycorrhizal Symbiosis to Reduce Amount of Urea Fertilizer Needed	Anna Carrel	Carondelet High	Kate Doherty Award \$100, Martinez Refining Company Safety Award \$500
Environmental	11	Predict overall wildfire risk based on live fuel moisture data	Harsha Pillarisetti	Dougherty Valley High	Mt. Diablo Resource Recovery \$250, NASA Earth System Science Award, Tremsin Award of Technology Innovation \$100
Environmental	12	Testing Encapsulated Pods Against Water Pollution and Preventing Harmful Algal Blooms	Ellie Wang Drishiti Sanghavi Vaishavi Sahu	Dougherty Valley High	CCC Water/Waste Water Agencies \$250
Math/Computer Science	9	Children Book Creator Using AI	Mahati Mettu	Dougherty Valley High	
Math/Computer Science	10	Eye See You, Cancer: Retinoblastoma Detection via Image Analysis, Diagnostic Biomarkers, and Explainable AI	Surya Duraivenkatesh Aditya Narayan	Dougherty Valley High	
Math/Computer Science	11	Optimizing Prediction Accuracy Using Advanced Ensemble And Voting Classifier Methods	Ashray Pamula	Dougherty Valley High	
Math/Computer Science	11	FinanciallyFit- An App Designed to Develop Financial Literacy at an Early Age	Sadhana Tadepalli	Dougherty Valley High	
Math/Computer Science	11	A Comparative Study of Different Machine Learning Algorithms for the Prediction of Coronary Artery Disease: A Classification Approach	Rubin Jain Aryan Madan	California High	
Math/Computer Science	11	Deepfake Forensics: Identifying Real Regions in Altered Videos with Digital Watermarking	Aayush Asthana	Dougherty Valley High	
Math/Computer Science	11	Machine Learning Model for Predicting Forest Fire	Jack Ke	Dougherty Valley High	
Math/Computer Science	11	Mitigating Racial Bias in Automated Melanoma Detection using Generative Adversarial Networks through a Synthetic Data Approach	Kaustubh Pullela	Head-Royce School	
Physical	8	Which Rolls Farther: a Basketball or Soccer Ball?	Roen Hooke	St. Francis of Assisi School	
Physical	11	Solid State Crystal Formation through Mechanochemistry	Siddarth Nagapudi	Dougherty Valley High	

THIRD PLACE AWARDS

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	7	Lo Fi or No Fi	Angelina Guerrero	Northcreek Academy	
Behavioral	11	Examining the Effects of Self-Esteem on Alcohol Consumption in Undergraduates	Siena Dhillon	California High	
Behavioral	12	Covid-19 Impact on Social Connection	Ingrid Hommeltoft	Carondelet High	
Biological	7	Brushing to the Beat	Klara Van Gompel	Northcreek Academy	

Biological	7	Making Mold: Testing Mold and Rot Growth on Fruits	Coledan Brumleve	Northcreek Academy	
Biological	8	Making Milk Curdle with Pineapple Enzymes	Pratik Ganesh	Iron Horse Middle	
Biological	11	Disinfectant Wars: The Quest to Find the Best Weapon Against Bacteria	Violet Le	Deer Valley High .	CCC Water/Waste Water Agencies \$250
Biological	11	Developing Novel Convolutional Neural Network Models for Early Detection of Skin Cancer	Steven Lee	Miramonte High	
Biological	11	Testing Familial Musical Perception Using EEG	Lia Tsotsiashvili	Carondelet	
Biological	11	The Effects of Solar Radiation on the Reproductive Rate of Drosophila Melanogaster	Sreemayee Krishna	Dougherty Valley High	
Biological	11	Traditional Indian Spices and Their Antibacterial Ability	Bhargav Kapur Taaha Rahman	Deer Valley High	
Biological	11	A Novel Approach to Identifying Diseases by Applying Machine Learning to Chest X-Rays	Sid Thakore	Dougherty Valley High	Regeneron Biomedical Science Award \$375
Biological	11	Current Techniques of Gene Editing in Cystic Fibrosis	Anjali Mistry	Dougherty Valley High	
Biological	11	Diagnosis of Pancreatic Cancer via a Computational Analysis of miRNA Biomarkers	Christian Osbey	Clayton Valley Charter	CytomX Therapeutics \$100, Yale Science & Engineering Association Award
Biological	12	A Study on the Effects of Stretching the SI Joint of Reining Horses	Isabel Darby	Carondelet High	
Biological	12	A Tale of Two Tanks	Taylor Whitmore	Carondelet High	CCC Water/Waste Water Agencies \$250
Engineering	8	Prototype for Brain Computer Interface(BCI) using electroencephalogram (EEG) to help people with mobility challenges	Akshara Ajendla	Doug Adams Middle	
Engineering	8	Smart Wheelchair	Michael Sun	Northcreek Academy	Lemelson Early Inventor Prize \$100
Engineering	8	System for Detecting Anaphylaxis and Administering Epinephrine	Zachary Cheng Rohan Goyal	Windemere Ranch Middle	
Engineering	11	A simple and fully automatic irrigation system solely depends on sunlight for energy and control – An application of ideal gas law	Annie Xu Angela Xu	Dougherty Valley High	CCC Water/Waste Water Agencies \$250
Environmental	10	Demonstrating the Efficiency of Dimethyl Sulfoxide (DMSO) by Eliminating the so-called "Forever Chemical" (PFAS) and Receiving a Healthy Source of Water	Pranav Saravanan	Dougherty Valley High	CCC Water/Waste Water Agencies \$75, Ricoh USA Award, US Stockholm International Water Institute Junior Water Prize
Environmental	10	Plastery: Converting Plastic to Energy to Solve the Problem of Ocean Pollution and Clean Energy	Shivam Mohapatra	Dougherty Valley High	US Stockholm International Water Institute Junior Water Prize
Environmental	10	Biodegradable Diaper	Sohith Movva	California High	
Environmental	11	Cigarette Butts' Role in Poor Plant Growth and Nitrate Level	Akshaj Molukutla	San Ramon Valley High	

Environmental	11	Food Safety: Home Test Kit for Heavy Metals and Pesticides	Samuel Lao Bohan Xiao Dingda Li	Valley Christian High	
Environmental	11	Will the Universal Use of Vehicles Powered Solely by Electricity Solve Our Current Climate Crisis?	Andrew Park	Las Lomas High School	
Math/Computer Science	9	Survival Analysis on Heart Disease Patients	Spoorthi Bedadam	Dougherty Valley High	
Math/Computer Science	11	A Novel Technique for Finding the Best Sequence of Data Augmentations on Brain MRIs using Deep Networks	Nishank Raisinghani	Dougherty Valley High	
Math/Computer Science	11	Combatting Temporal Distribution Shift with the Addition of Time as a Machine Learning Model Covariate	Anaisha Das	Dougherty Valley High	
Math/Computer Science	11	Combating Misinformation Through an App Using Fact-Checking API's	Pragati Mettu	Dougherty Valley High	
Math/Computer Science	11	Natural Language Processing (NLP) for Translation of Archaic Literature and Documents	Aashita Krupadanam	Dougherty Valley High	
Physical	11	Thin films - Ideas, Properties, Application Developing a Thin Film using the Method of Spray Pyrolysis	Rishi Gopalasetty	Dougherty Valley High	
Physical	12	Is There a Relationship Between the Volume of the Tube and the Effectiveness of the Ejection Charge?	Borngreat Omoma-Edosa	Deer Valley High	US Air Force (backpack)

FOURTH PLACE AWARDS

CATEGORY	GRADE	TITLE	STUDENT	SCHOOL	SPECIAL AWARD
Behavioral	10	Diet Influence on Cognitive Ability	Sriya Veerapaneni	California High School	
Behavioral	11	Is Emotional Intelligence Positively Correlated to Popularity Among High School Teenagers?	Quanhu Che Yu Him Fan	Contra Costa Christian Schools	
Behavioral	11	Trans Youth Experience with Gender-Affirming Care in the Bay Area	Annabelle Chung	Carondelet High	
Biological	11	A Probe Into Fentanyl Analysis	Talha Ansari	Dougherty Valley High	
Engineering	8	Background Radiation	Angele Tseng Madeline Carpenter Jeevan Dhaliwal	Joaquin Moraga Intermediate School	National Oceanic & Atmospheric Administration Award
Engineering	8	Global Impact of Diabetes - Insulin Pump can save lives	Rahul Gopalasetty	Windemere Ranch Middle	Bio-Rad \$500
Engineering	9	Uses of Compliant Robotics in the Simulation and Artificial Replacement of Human Limbs	Avyay Ramaswamu	Dougherty Valley High	
Math/Computer Science	9	Identifying Road Signs Using Machine Learning	Prayag Gaonkar	Dougherty Valley High	
Math/Computer Science	10	A Novel Deep Learning Approach for Assessing Coral Reef Health	Aahan Sharma	Dougherty Valley High	Naval Science Award \$50
Math/Computer Science	10	gMAP-VS: Development of a Mobile Application Proof of Concept for Geriatric Populations Utilizing Anthropomorphic and Biometric Data Acquisition	Helena Linnen	Campolindo High School	

Math/Computer Science	10	A User-Friendly Newsletter System for Organizations using Google Calendar	Kellen Hurrey Brooke Hirsch	California High School	
Math/Computer Science	10	AI-driven Pistachio Crop Yields Prediction and Improvement	Shreyas Potturu	Dougherty Valley High	
Math/Computer Science	11	Determining an Optimal Quantum Processor and Method of Measurement for Quantum Processor Performance	Siddharth Chander	Dougherty Valley High	
Math/Computer Science	11	Offline Education	Sayam De	California High	
Math/Computer Science	11	New Vision Towards Unbiased World Using Sentimental Analysis	Rayna Jindal	California High School	
Math/Computer Science	11	Digital Eye: Using AI Computer Vision Technology to Provide Aid to the Blind and Visually Impaired	Adviti Aleti	Dougherty Valley High	
Physical	11	Sun Spots	Daejah Matier	Deer Valley High	US Air Force (backpack)