

Solano County Office of Education
proudly presents the:

9th Annual
**Solano County Science
& Engineering Fair**

Thursday, March 17, 2022



**SCIENCE AND ENGINEERING FAIR
AWARDS CEREMONY**

THURSDAY, MARCH 17, 2022 || 6:00 PM TO 7:30 PM

Welcome Remarks

Lisette Estrella-Henderson

Solano County Superintendent of Schools

**Inspirational Talk: How the
Little Things Make the Scientist**

Nelson Trombley Jr.

Operational Specialist for Internal Research and
Development at Maxar Technologies

Recognition of Winners

Lilibeth Pinpin

Director, Innovative Programs & Student Success

ELEMENTARY DIVISION

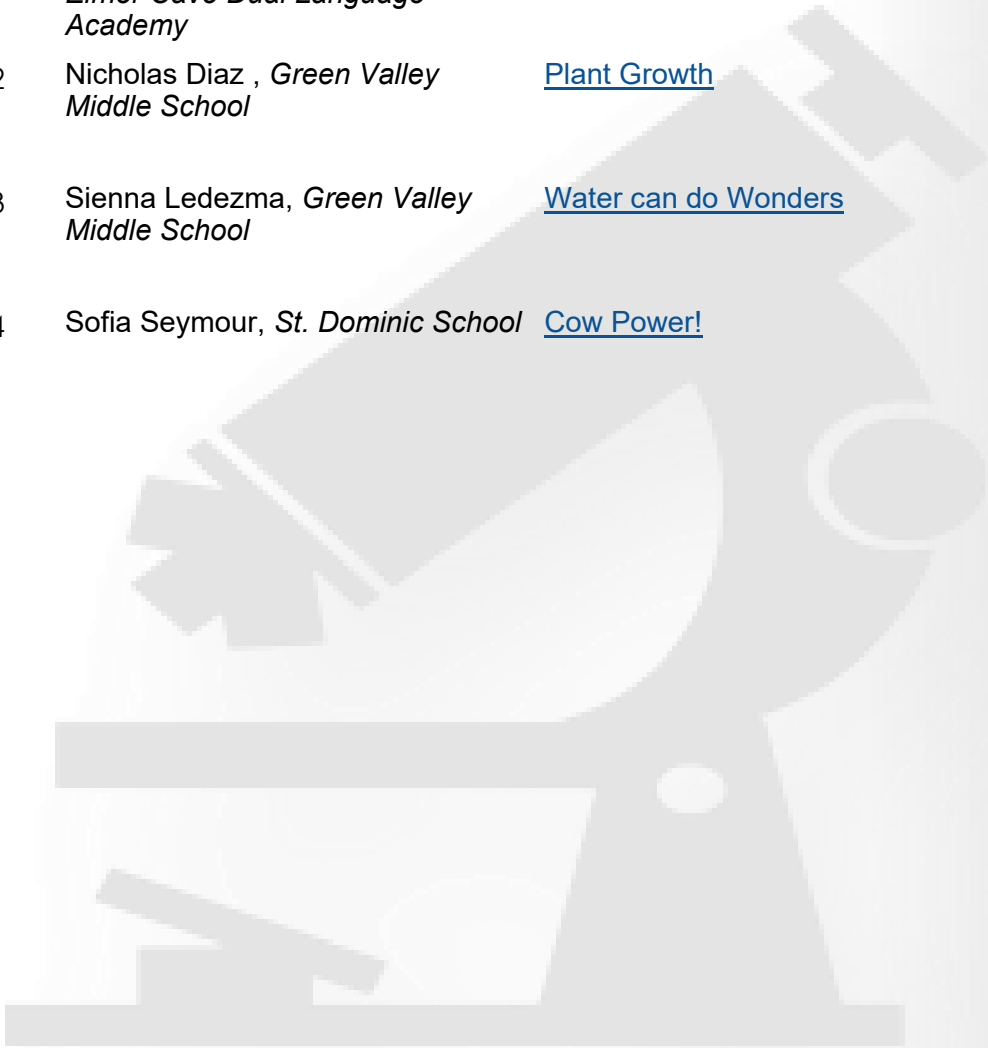
Earth, Life & Physical Science

Project	Student Name(s)/School	Project Title
1	AlpDeniz Kaya, <i>The Academy of 21st Century Learning</i>	<u>How Much Radiation Do Everyday Devices Emit?</u>
2	Anne Wilde and Maria Patterson, <i>The Academy of 21st Century Learning</i>	<u>Will spinach grown hydroponically grow and taste better than spinach grown in soil?</u>
3	Charlotte Thornhill, <i>The Academy of 21st Century Learning</i>	<u>What's ok to mix with vinegar?</u>
4	Jessel Rafael, <i>The Academy of 21st Century Learning</i>	<u>How do different types of manure affect the growth of grass?</u>
5	Nathan Neff, <i>The Academy of 21st Century Learning</i>	<u>Quake Experiment : How much force does it take to knock down different types of structures?</u>
6	Sabrina Barboza, <i>The Academy of 21st Century Learning</i>	<u>Which Soap Would Be The Best To Clean Oil Out Of a Feathered Animal?</u>
7	Taylor Cabatic, <i>The Academy of 21st Century Learning</i>	<u>Do Polymer Crystals Absorb Heat Energy and Retain it?</u>

JUNIOR DIVISION

Earth Science

Project	Student Name(s)/School	Project Title
1	Aubrey Lewis and Angel Ochoa, <i>Elmer Cave Dual Language Academy</i>	<u>The Future of Tsunami Detectors</u>
2	Nicholas Diaz , <i>Green Valley Middle School</i>	<u>Plant Growth</u>
3	Sienna Ledezma, <i>Green Valley Middle School</i>	<u>Water can do Wonders</u>
4	Sofia Seymour, <i>St. Dominic School</i>	<u>Cow Power!</u>



JUNIOR DIVISION

Life Science

Project	Student Name(s)/School	Project Title
1	Aanya Brijesh, <i>Green Valley Middle School</i>	<u>Comparing the growth of pea plants in hydroponic and agricultural systems</u>
2	Abigail Melanephy & Elena Varnado, <i>Elmer Cave Language Academy</i>	<u>"Naturally dead" to use or lose?</u>
3	Amari Williams, <i>The Academy of 21st Century Learning</i>	<u>Is pepper water better for Peperomia plants?</u>
4	Amy Yang, <i>Green Valley Middle School</i>	<u>The Effect of Caffeine on Plant Growth</u>
5	Ansh Sharma, <i>Green Valley Middle School</i>	<u>A Social Experiment About Social Status</u>
6	Ari Thompson, <i>Green Valley Middle School</i>	<u>The Effect Of Color Ink On Reading Speeds</u>
7	Daniel Gevero, <i>Green Valley Middle School</i>	<u>Can Color Affect the Way we Percieve Things?</u>
8	Christopher Balderas and Daniel Sanchez, <i>Elmer Cave Language Academy</i>	<u>Best Drinks for Athletes</u>
9	Eden Cantu, <i>The Academy of 21st Century Learning</i>	<u>How Accurate is Graphology?</u>
10	Justin Kirtdoll, <i>The Academy of 21st Century Learning</i>	<u>Animal Psychology: What do cats prioritize in a maze?</u>

JUNIOR DIVISION

Life Science

Project	Student Name(s)/School	Project Title
11	Margaret Nast, <i>Green Valley Middle School</i>	<u>Science Fair: Which Food Grows Mold the Fastest?</u>
12	McKayla Velando, <i>Green Valley Middle School</i>	<u>Does Music Affect Plants?</u>
13	Mia Benguerel, <i>Green Valley Middle School</i>	<u>Music To Heart</u>
14	Michelle Perez, <i>Elmer Cave Dual Language Academy</i>	<u>A Responsive House</u>
15	Milena Bongato, <i>Green Valley Middle School</i>	<u>The Effect of Color on Memory</u>
16	Nadia Najjar, <i>Green Valley Middle School</i>	<u>Can Chickens Learn From Watching Each Other</u>
17	Sriya Srinivasan, <i>Green Valley Middle School</i>	<u>What Makes A Healthy Plant</u>
18	Vera Cho, <i>Green Valley Middle School</i>	<u>Bacteria in Restroom</u>
19	Wallace Hillberg, <i>Green Valley Middle School</i>	<u>How does Romaine Lettuce Grow in Different Amounts of Lighting?</u>

JUNIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
1	Arjun Nirwan, <i>Green Valley Middle School</i>	<u>Geyser</u>
2	Brayden Hartt, <i>Green Valley Middle School</i>	<u>Electromagnetism using Batteries</u>
3	Bryan Belaidi, <i>Elmer Cave Dual Language Academy</i>	<u>Sustaining Space Exploration. The Spatial Rotorcraft!</u>
4	Corbin Grunditz, <i>The Academy of 21st Century Learning</i>	<u>How does the size of magnets impact the strength of a simple electric motor?</u>
5	Diya Thennarasu, <i>Green Valley Middle School</i>	<u>Which is Stronger: Hot or Cold Magnets?</u>
6	Elijah "Jai" Valdez, <i>Green Valley Middle School</i>	<u>Which Colors Absorb the Most Light?</u>
7	Ellie Steiger, <i>Green Valley Middle School</i>	<u>Wacky Weights</u>
8	Ellis Hernandez Davitt, <i>Green Valley Middle School</i>	<u>What makes ice melt faster?</u>
9	Grace Blankenship & Amelee Freytag, <i>Benicia Middle School</i>	<u>Chemical Chain Reaction Machine</u>
10	Isabel Vree, <i>Green Valley Middle School</i>	<u>How does changing the amount of vinegar in baking soda affect the amount a balloon inflates?</u>

JUNIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
11	James Brockman, <i>Green Valley Middle School</i>	<u>Leverage</u>
12	Jennifer Petsko, <i>Green Valley Middle School</i>	<u>What Is the Loss of Solar Panel Power Output When Covered by Different Pollutants?</u>
13	Krish Ambalam Jagadish, <i>Green Valley Middle School</i>	<u>Friction in Motion</u>
14	Kyla Byrd, <i>Green Valley Middle School</i>	<u>I will figure out what item out of three, will make an ice cube melt the fastest.</u>
15	Kyson Lee, <i>Green Valley Middle School</i>	<u>The Speed of Bats</u>
16	Mia Pumphrey, <i>Green Valley Middle School</i>	<u>Quantity vs Time: More Marshmallows More Cooking Time?</u>
17	Shriya Peddireddy, <i>Green Valley Middle School</i>	<u>Airplanes</u>
18	Sophia Olsen, <i>Green Valley Middle School</i>	<u>How and why does the thickness of a rubber band affect the distance of the cotton ball?</u>

SENIOR DIVISION

Earth Science

Project	Student Name(s)/School	Project Title
1	Danielle Miller, <i>Vanden High School</i>	<u>What Effect Does Detergent Greywater Have on Plants?</u>
2	Hailey Lam, <i>Vanden High School</i>	<u>Growing Plants on Mars</u>
3	Liana Basa, <i>Vanden High School</i>	<u>Paper Planes</u>
4	Makayla Dotson, <i>Vanden High School</i>	<u>Why Aren't All Medicines Pills?</u>
5	Mateo Aguilar, <i>Vanden High School</i>	<u>Are Conventional Cleaners More Toxic Than Green Cleaners</u>
6	Quinn Brown, <i>Vanden High School</i>	<u>Can PLANTS Prevent Soil Erosion?</u>
7	Ysabelle Bagalay, <i>Vanden High School</i>	<u>Seed Mediums</u>
8	Yuridia Gonzalez, <i>Vanden High School</i>	<u>Caramelization in Cookies</u>

SENIOR DIVISION

Life Science

Project	Student Name(s)/School	Project Title
1	Allyana Garland, <i>Vanden High School</i>	<u>Can the Weight of a Student's Backpack Affect Their GPA?</u>
2	Angel Galvez, <i>Vanden High School</i>	<u>That DARN Acne!</u>
3	Angela De Guzman, <i>Vanden High School</i>	<u>Orange Juice</u>
4	Aurora Adrias, <i>Vanden High School</i>	<u>Bread Rising: Turn Up The Heat</u>
5	Brayden Chavez, <i>Vanden High School</i>	<u>How Does Nutrition Affect Athletes?</u>
6	Charlotte Rains, <i>Vanden High School</i>	<u>What effect does different amounts of nutrients in plant food have on plant growth?</u>
7	Cierra Kinsey, <i>Public Safety Academy</i>	<u>CoVID-19 exposure using passive air monitoring (settle plate method) while attending in-person classes.</u>
8	Dakota Brooks, <i>Vanden High School</i>	<u>Why is insulin only in liquid form</u>
9	Diana Kunz, <i>Vanden High School</i>	<u>Plant pH</u>
10	Dyanara Ramirez-G, <i>Vanden High School</i>	<u>How Easy is it Really to Find Someone's Location</u>
11	Ethanael Nonan, <i>Vanden High School</i>	<u>Red vs Blue</u>

SENIOR DIVISION

Life Science

Project	Student Name(s)/School	Project Title
12	Gabrielle Nguyen, <i>Vanden High School</i>	<u>Caffeine in Plants: Helpful or Hurtful?</u>
13	Jacylle Pepito, <i>Vanden High School</i>	<u>Are "Reduced Fat" Foods Telling the Truth?</u>
14	Kaleia Grinton, <i>Vanden High School</i>	<u>Plant growth using chemicals or water</u>
15	Katelyn Sybert, <i>Vanden High School</i>	<u>The Psychology of Colors</u>
16	Leone Stanley-Maluia, <i>Vanden High School</i>	<u>Hydroponically-Grown Basil Vs Soil-Grown Basil</u>
17	Maddox Rondez, <i>Vanden High School</i>	<u>Do Video Games Affect Grades?</u>
18	Matthew Provencher, <i>Vanden High School</i>	<u>How do Different types of liquids impact plant growth?</u>
19	Maui Asuncion, <i>Vanden High School</i>	<u>Acne, acne go away!</u>
20	Mia Preston, <i>Vanden High School</i>	<u>Manual vs. Automatic shuffling</u>
21	Monica Minyen, <i>Vanden High School</i>	<u>Bacteria Growth in Water Bottles</u>
22	Myles Adams, <i>Vanden High School</i>	<u>What are Fats?</u>

SENIOR DIVISION

Life Science

Project	Student Name(s)/School	Project Title
23	Nathan Romero, <i>Vanden High School</i>	<u>Bacterial Growth On Mask</u>
24	Oryn Morales & Obryn Morales, <i>Vanden High School</i>	<u>Microwaved Navy Bean Growth</u>
25	Princess Faye Tabios, <i>Vanden High School</i>	<u>Astrology and YOU</u>
26	Sehaj Singh, <i>Vanden High School</i>	<u>Is our shower water safe</u>
27	Susana Labarga, <i>Vanden High School</i>	<u>Talking To Plants</u>
28	Sylvia Hernandez, <i>Vanden High School</i>	<u>Hydroponics v.s. Soil</u>
29	Vega Chen, <i>Vanden High School</i>	<u>Heart rate in different conditions</u>
30	William Iheanacho, <i>Vanden High School</i>	<u>Freezing Frenzy</u>
31	Zachary Wolf, <i>Vanden High School</i>	<u>H2O2 Effects on Seed Germination</u>
32	Zyryl Marianov	<u>Soil Erosion Mitigation: Can plants prevent/ reduce soil erosion?</u>

SENIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
1	Aaron Ronquillo, <i>Vanden High School</i>	<u>Ice Melter</u>
2	Adam Bowers, <i>Vanden High School</i>	<u>What Makes Planes Go UP</u>
3	Aiden Villaruel, <i>Vanden High School</i>	<u>Aerodynamics in model airplanes</u>
4	Antonio Carvalho, <i>Vanden High School</i>	<u>Cooling Down</u>
5	Ava Henkel, <i>Vanden High School</i>	<u>Craters on Mars vs. Mercury</u>
6	Calvin Valdez, <i>Vanden High School</i>	<u>Shapes Through Structures</u>
7	Carlos Medina Rojas, <i>Vanden High School</i>	<u>Balloon Car</u>
8	Charlize Miranda, <i>Vanden High School</i>	<u>Saltwater to Egg Float</u>
9	Christopher Marley, <i>Vanden High School</i>	<u>Fruits and Vegetables Powering a LED Light</u>
10	Dylan Hoang, <i>Vanden High School</i>	<u>Liquid Magnetism</u>
11	Easton Kelsey, <i>Vanden High School</i>	<u>The effects of washing: Fabrics and their effect on preventing Covid</u>

SENIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
12	Elena Fiol , <i>Vanden High School</i>	<u>Red vs. Blue</u>
13	Elijah Saddi, <i>Vanden High School</i>	<u>Freeze!</u>
14	Ethan Galvez, <i>Vanden High School</i>	<u>Freezing Ice</u>
15	Faith Newell, <i>Vanden High School</i>	<u>Salt water solution Melting Ice</u>
16	Jacob Toms, <i>Vanden High School</i>	<u>Efficient Propeller Design</u>
17	Jasmine Oldani, <i>Vanden High School</i>	<u>Mnemonics: Do they Work?</u>
18	Jaymond O'Quinn, <i>Vanden High School</i>	<u>Wonderful Water among pH</u>
19	Jon Timbol, <i>Vanden High School</i>	<u>Hydrogen Peroxide: The Hair Strand Stretcher</u>
20	Jordan Marino, <i>Vanden High School</i>	<u>Web Shooter v.s Web Shooter</u>
21	Josiah Rauch, <i>Vanden High School</i>	<u>Propeller efficiency</u>
22	Kailey Nicol, <i>Vanden High School</i>	<u>Solar ovens</u>

SENIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
23	Kaleah Mitchell, <i>Vanden High School</i>	<u>Chemilumiscience Experience</u>
24	Katelyn Walbolt, <i>Vanden High School</i>	<u>Why does a cake rise when it's baked?</u>
25	Keira Manor, <i>Vanden High School</i>	<u>Which Type Of Laundry Detergent Is The Best For Getting Out Stains?</u>
26	Ky Tran, <i>Vanden High School</i>	<u>How Long do Candles Burn Based on Their Material</u>
27	Lance Cohen, <i>Vanden High School</i>	<u>Egg Drop</u>
28	Layo Ogunleye, <i>Vanden High School</i>	<u>The Chemistry of Ice Cream</u>
29	Levi Abbate, <i>Vanden High School</i>	<u>The Effectiveness of Physical Barriers Against Respiratory Diseases</u>
30	Lianna Bulaon, <i>Vanden High School</i>	<u>Testing the solubility of different substances</u>
31	Mathew Toms, <i>Vanden High School</i>	<u>Effect of magnets on generator output</u>
32	Mia Zabat, <i>Vanden High School</i>	<u>Which has more electrolytes?</u>
33	Michael Alasco, <i>Vanden High School</i>	<u>The Effect of Thermal Conduction</u>

SENIOR DIVISION

Physical Science

Project	Student Name(s)/School	Project Title
34	Nolin McClaskey, <i>Vanden High School</i>	<u>Laser and Plastics</u>
35	Oliver Myers, <i>Vanden High School</i>	<u>How certain recipes effect the rise of cheesecake</u>
36	Rachel Contreras, <i>Vanden High School</i>	<u>Space Adventure Roller Coaster</u>
37	Sameer Manger, <i>Vanden High School</i>	<u>Paper Plane</u>
38	Scott Webster, <i>Vanden High School</i>	<u>Would It Be Easier to Bank a Basketball on One Position on the Court Compared to Others?</u>
39	Shreyas Bajracharya, <i>Vanden High School</i>	<u>What Makes Ice Melt Faster</u>
40	Timia Dumandan, <i>Vanden High School</i>	<u>Music's Affect</u>
41	Tristen Wilson-Ongaco, <i>Vanden High School</i>	<u>Chemistry World</u>

SCIENCE FAIR JUDGES

Adrian Ocampo | Briana Lewis | Esmeralda Segura | Gurmun Singh | Iyad Natour
Jasmine Sun | Jerry Jensen | Kelly Fergusson | Louise Blavet | Maria Nguyen
Mike Roush | Monica Joseph | Nwachukwu Okwudirichi | Ramandeep Sidhu
Roberto Beltran | Rubi Catalan | Sravya Gudipudi | Timothy Balmorez | Tom Roush
Victoria Snyder

A SPECIAL THANK YOU TO ALL OF YOU !

Lisette Estrella-Henderson

Solano County Superintendent of Schools

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Elease Cheek | Peggy Cohen-Thompson | Michelle Coleman | Dana Dean | Amy Sharp

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The Lakeshore logo, featuring the word "Lakeshore" in white serif font on a red rectangular background with a white border.

