

**2022 USEF - Elementary Division**

<b>Category and Rank</b>	<b>Name</b>	<b>School</b>	<b>Project Title</b>
Behavioral & Social Sciences - First Place	Charlotte Lee	Grantsville Elementary	Are teens addicted to their phones?
Behavioral & Social Sciences - Second Place	Olivia Henderson	American Preparatory Academy APA Draper 2	Do Video Games Rot Your Brain?
Behavioral & Social Sciences - Third Place	Andrew Jiao	Wasatch Jr. High	The Effect of Marijuana Legalization on Crime in Colorado
Behavioral & Social Sciences - Fourth Place	Charlotte Jacobsen	McMillan Elementary	Face Time
Behavioral & Social Sciences - Honorable Mention	Anderson Garrett	Ensign Elementary	Let's Go!...and See if Fortnite Distracts Kids
Behavioral & Social Sciences - Honorable Mention	Hazel Jennings	Emerson Elementary	Food Coloring: Delicious or Disgusting?
Biology & Microbiology - First Place	Seyon Juyal	American Preparatory Academy APA Draper 1	Disinfectants at Work
Biology & Microbiology - Second Place	Christopher Joklik	St. John the Baptist Middle School	Muscle Madness
Biology & Microbiology - Third Place	Isaac Wilson	Stansbury Park Elementary	How dirty is your mask?
Biology & Microbiology - Fourth Place	Maxmilian Doubrava	Willow Canyon Elementary	Neurons and Temperature
Biology & Microbiology - Honorable Mention	Kate Haymond	Peruvian Park Elementary	Decomposition
Biology & Microbiology - Honorable Mention	Rylee Burtch	Morningside ALC	Does the Five Second Rule Work?
Chemistry & Biochemistry - First Place	Crystal Mirci	Fox Hills ALC	Got Food Waste? Turn It Into Durable, Biodegradable Plastic!
Chemistry & Biochemistry - Second Place	Albert Xu	Challenger	Water Purification with Different Sized Carbon Particles
Chemistry & Biochemistry - Third Place	Solomon Kim	Wasatch Jr. High	What kind of milk makes your stomach happy?
Chemistry & Biochemistry - Fourth Place	Patrick Meirowitz	Silver Summit Academy	Homemade Hand Warmers
Chemistry & Biochemistry - Honorable Mention	Kohen Gongaware	American Preparatory Academy APA West Valley 2	Jammin' Bananas
Chemistry & Biochemistry - Honorable Mention	Liam Linton	Granite Elementary	Best Drink for Dissolving Medicine
Chemistry & Biochemistry - Honorable Mention	Everett Gassman	Bonneville Elementary	Does a Fully Charged Battery Weigh More Than a Dead Battery?
Chemistry & Biochemistry - Honorable Mention	Janie Curtis	Churchill Jr. High	Improving Biodegradable Plastics
Chemistry & Biochemistry - Honorable Mention	Connor Jarnagin & Isaac	Dilworth Elementary	The Elephant Toothpaste Experiment
Chemistry & Biochemistry - Honorable Mention	Alexander Seely	Overlake Elementary	Is Salt Important to Make Mummies
Civil & Environmental Engineering - First Place	Ansh Devlekar	Challenger	The Strongest Truss Challenge
Civil & Environmental Engineering - Second Place	Sophia Zhang	Challenger	To Tilt or Not to Tilt? The Best Angle for Solar Panels
Civil & Environmental Engineering - Third Place	Nate Settlemyre & Leonardo Brown	Weilenmann School of Discovery	Traditional Versus Natural Cooling System
Civil & Environmental Engineering - Fourth Place	Emeline Baran	West Valley STEM	Pot Transporter
Computer Science & Applied Computational Methods - First Place	Anushka Rajeev	Brookwood Elementary	Doubles, Triples, and Home Runs: Using the Huffman Code to Shorten the Human Genome
Computer Science & Applied Computational Methods - Second Place	Thomas Holt	Beehive Academy	If you add a deepfake to an image with steganography in it, will the steganography break?
Computer Science & Applied Computational Methods - Third Place	Kyler Johnson	Diamond Ridge Elementary	Object Characteristics Impact on Echolocation
Earth & Environmental Sciences - First Place	Jayden Roos	Challenger	Plants vs. Gas
Earth & Environmental Sciences - Second Place	Hannah Galian & Chloe Crumley & Josie Flickinger	Wasatch Elementary	Sparkly Fresh Saltwater
Earth & Environmental Sciences - Third Place	Luc Hardink	Challenger	Crazy Crystals
Earth & Environmental Sciences - Fourth Place	Philip Germanov	Ensign Elementary	Where the Creek Stops and the City Starts – City Creek Canyon Water Quality at Different Elevations
Earth & Environmental Sciences - Honorable Mention	Brynnli Roberts	Oakridge Elementary	Solar Energy and Air Pollution
Earth & Environmental Sciences - Honorable Mention	Lexi Fidler	American Preparatory Academy APA Draper 2	Testing Chlorine and Sediment Levels in Our Local Water
Earth & Environmental Sciences - Honorable Mention	Griffin Jeppsen	Morningside ALC	The Low-down on Landscaping

**2022 USEF - Elementary Division**

Earth & Environmental Sciences - Honorable Mention	William Barney	Wasatch Jr. High	Inexhaustible Insulation 2.0
Electrical Engineering - First Place	Daniel Carrasco	American Preparatory Academy APA West Valley 2	Tesla Coil
Electrical Engineering - Second Place	David Sackett	West Valley STEM	Just Chill
Electrical Engineering - Third Place	Mary Fedorov	Challenger	100 Resistance!
Electrical Engineering - Fourth Place	Ezra Petersen	Sterling Elementary	Breathe Easy Indoors
Electrical Engineering - Honorable Mention	Stephen Burr	St. John the Baptist Middle School	Breathe Baby Breathe
Energy: Chemical & Physical - First Place	Derek Hardink	Challenger	Go with the Flow
Energy: Chemical & Physical - Second Place	Cedar Anderson	Silver Mesa Elementary	Lemon Battery Experiment...and more.
Energy: Chemical & Physical - Third Place	Aditya Jonnalagedda	Challenger	Veggie Power
Energy: Chemical & Physical - Fourth Place	Ethan Tao & Justin Tao	Wasatch Jr. High	Fruit Battery, Temperature Matters!
Energy: Chemical & Physical - Honorable Mention	Saahith Mateti	Peruvian Park Elementary	Which is more efficient - Tower Fan Or Bladeless Fan?
Mechanical & Materials Engineering - First Place	Ryder Paea	West Valley STEM	Protective Equipment for Deaf Athletes Hearing Devices
Mechanical & Materials Engineering - Second Place	Sohum Krishna	Emerson Elementary	Here Comes the Sun Powered Car
Mechanical & Materials Engineering - Third Place	Cedar Hall & Logan McNally	Weilenmann School of Discovery	The Effects of Wax on Skis
Mechanical & Materials Engineering - Fourth Place	Calvin Glende & Owen Jameson	Bonneville Elementary	Movable Pipe Organ
Mechanical & Materials Engineering - Honorable Mention	Noelle Thackeray	Longview Elementary	Pungent2Posh
Mechanical & Materials Engineering - Honorable Mention	Cedar Walker	Silver Mesa Elementary	Bouncing Balls - How Air Pressure Affects the Rebound of a Ball
Mechanical & Materials Engineering - Honorable Mention	Tanner Staten	Alta View Elementary	Perler Bead Strength Tests
Mechanical & Materials Engineering - Honorable Mention	Noah Mascaro	Wasatch Jr. High	Line Following Robot Experiment
Mechanical & Materials Engineering - Honorable Mention	Owen Hunt	Grantsville Elementary	Can A Train Levitate?
Mechanical & Materials Engineering - Honorable Mention	Lillie Kennedy	Wright Elementary	Which Rocket Design Will Fly The Farthest?
Medicine, Health Sciences, & Biomedical Engineering - First Place	Aaditya Kuberan	Challenger	Blood Clots
Medicine, Health Sciences, & Biomedical - Second Place	Caleb Soukup	Cottonwood Elementary	Testing the Tests: Comparing the Accuracy of Antigen and PCR Tests in Detecting SARS-CoV-2
Medicine, Health Sciences, & Biomedical Engineering - Third Place	Skylar Edwards	St. John the Baptist Middle School	Goals! A Scientific Method to Improve My Goals in Soccer
Medicine, Health Sciences, & Biomedical Engineering - Fourth Place	Delilah Knight	Copper Hills Elementary	What Mutations Matter?
Physics, Astronomy & Math - First Place	Jacob Houston	Copper Hills Elementary	Jello-O and the speed of light
Physics, Astronomy & Math - Second Place	Pranav Bagirathan	Challenger	Electromagnet's Magnetic Display
Physics, Astronomy & Math - Third Place	Quentin Parnell	Bonneville Elementary	"I Think I Can": Testing Slopes with a Model Train
Physics, Astronomy & Math - Fourth Place	Grant Shmookler	Challenger	High Flight
Physics, Astronomy & Math - Honorable Mention	Connor Wilson	Wright Elementary	Gas and Temperature
Physics, Astronomy & Math - Honorable Mention	Katherine Milbank	Morningside ALC	Bolting for the Door: The Material Effect of Static Electricity
Plant Sciences - First Place	Dalia Habib	Challenger	Acid Rain
Plant Sciences - Second Place	Samuel Wojnowski	Peruvian Park Elementary	Probiotics for Perennials
Plant Sciences - Third Place	Sean "Preston" Marshall	Viewmont Elementary	Grow a Better Garden with Less Water in a Drought
Plant Sciences - Fourth Place	Liberty Schafer	St. Francis Xavier	Plant Life
Plant Sciences - Honorable Mention	Eli King	Highland Park Elementary	Dirtology