

CUSF 2021 Secondary Day Awards List

Award Name	Name(s)	School(s)	Project Title
Special Awards			
American Meteorological Society Award	Hailey Tolbert	Wasatch High	Microplastic Correlation with Nearby Residency and Recreation
American Meteorological Society Award	Mercy Smith	Timpview High	Developing a Cheap, Safe, and Effective Filter to Prevent Freshwater Eutrophication
American Meteorological Society Award	Jaidyn Bundy	Centennial Middle	Getting Away from Air Pollution: The Locational Effect of PM2.5 in Provo, Utah
American Meteorological Society Award	Genevieve Haisman	Summit Jr. High - Draper	The Greenhouse Effect
American Psychological Association Award	Natalie Thurgood	Early Light Academy	Tempted to Cheat
American Psychological Association Award	Matthew Blood	Timpanogos Middle	Color Memory
ASM Materials Education Foundation	Adam Guthrie	Timpview High	Beneficiation of Clayey Soils with Cement Stabilization
Association for Women Geoscientists Award	Mercy Smith	Timpview High	Developing a Cheap, Safe, and Effective Filter to Prevent Freshwater Eutrophication
Mu Alpha Theta Award	Tyler Jackson	Pleasant Grove High School	Utilizing Computational Algorithms in Comparing SARS-CoV-2 Genetics and Proteins in Italy and Mexico
NASA Earth System Science Award	Harper Jones	Karl G. Maeser Prep Academy	Clearing the Air: Empirical Comparison of Metal/Air Battery Carbon Footprint
NASA Earth System Science Award	Ethan Stailey	Pleasant Grove High School	Determining How Varying Pollutants Within The Environment Affect Lichen and the Habitat it Resides In
National Oceanic and Atmospheric Administration Award	Hailey Tolbert	Wasatch High	Microplastic Correlation with Nearby Residency and Recreation
National Oceanic and Atmospheric Administration Award	Jakob Hansen and Sophia Clark	Pleasant Grove High School	Ocean Acidification
Office of Naval Research	Devyn Giles	Karl G. Maeser Prep Academy	Quantifying Electromagnetic Radiation Levels: The Effects of Proximity on EMF Levels in Residential Homes
Office of Naval Research	Harper Jones	Karl G. Maeser Prep Academy	Clearing the Air: Empirical Comparison of Metal/Air Battery Carbon Footprint
Office of Naval Research	Joshua Killpack	Centennial Middle	How Safe are the Sensors Used in Autonomous Cars
Office of Naval Research	Maia Young	Soldier Hollow	LED Traffic light gloves
Office of Naval Research	Jaron Wunder	Mountain Ridge Junior High	What Type of Barrier is the Best against a Tsunami
Ricoh Sustainable Development Award	Victoria Radley	Pleasant Grove High School	The Effects of 2H2O2 on Seed and Cutting Development
Ricoh Sustainable Development Award	Scarlett Wright	Mountain Ridge Junior High	Can Nanotechnology Aide In Oil Spill Cleanup?
U.S. Agency for International Development	Luke Spencer and Spencer McLendon	Pleasant Grove High School	Cellobiase Efficiency in Common Mushrooms for the Production of Biofuel
U.S. Agency for International Development	Mercy Smith	Timpview High	Developing a Cheap, Safe, and Effective Filter to Prevent Freshwater Eutrophication
U.S. Metric Association	Luke Spencer and Spencer McLendon	Pleasant Grove High School	Cellobiase Efficiency in Common Mushrooms for the Production of Biofuel
U.S. Stockholm Jr. Water Prize	Hailey Tolbert	Wasatch High	Microplastic Correlation with Nearby Residency and Recreation

U.S. Stockholm Jr. Water Prize	Mercy Smith	Timpview High	Developing a Cheap, Safe, and Effective Filter to Prevent Freshwater Eutrophication
U.S. Stockholm Jr. Water Prize	Jakob Hansen and Sophia Clark	Pleasant Grove High School	Ocean Acidification
Yale Science & Engineering Association	Jesse Shepherd	Spanish Fork High	Comparison of Same-hen Yolk and Serum Antibody Levels Using the ELISA Test Following Vaccination With Typical Vaccines Used in Commercial Laying Hens

Category Awards - JUNIOR DIVISION

3rd Place

Animal & Plant Sciences	Paia Christianson and Kjell Sanders	Centennial Middle	How Music Affects A Dogs Heart Rate
Animal & Plant Sciences	Allison Bowler	Valley View Middle	Paw Preference
Behavioral & Social Science	Ruby Lynn	Early Light Academy	What Motivates Speed?
Behavioral & Social Science	Ashton Cook	Valley View Middle	Seeing is Believing?
Behavioral & Social Science	Sterling Neal and Eliza Neal	Timberline Middle School	"How Does Wearing a Mask Affect How We Hear/Communicate?"
Biomedical, Medicine, & Health Sciences	Emily Parker	Valley View Middle	Egg Substitutes
Biomedical, Medicine, & Health Sciences	Montana Rogers	Mountain Ridge Junior High	How different ages affect sound frequencies that people can hear.
Chemistry	Zachary Burrup	North Star Academy	CO2 Pressure Rockets
Chemistry	Annaliese Klemin	Mountain Ridge Junior High	What is the Water like in your Town?
Earth & Environmental Science	Sarah Cutting	Timpanogos Middle	Vermicomposting 2.0
Earth & Environmental Science	Matthew Cordner	Centennial Middle	Riverside Plastics
Earth & Environmental Science	Jayde Wilson	Valley View Middle	Forest VS Wildfire
Engineering: Materials & Mechanical	Taya Kendall and Camilla Pope	Willowcreek Middle School	It's just Rocket Science
Physics, Astronomy, & Mathematics	Nathan Sandberg	Valley View Middle	Star Light, Star Bright, How Hot are you Tonight?
Physics, Astronomy, & Mathematics	Macee Stratton	Mountain Ridge Junior High	Absorption or Reflection
Physics, Astronomy, & Mathematics	Cabell Buechner	Mountain Ridge Junior High	How Far Can You Throw?

2nd Place

Animal & Plant Sciences	Ben Blodgett	Timpanogos Middle	Vitamin C time
Animal & Plant Sciences	Lincoln Young	Mountain Ridge Junior High	Radishisions, Radishisions, Radishisions
Behavioral & Social Science	Hannah Coyne	Valley View Middle	Meltdowns And Media: Does Technoference impact Infant Behavior
Behavioral & Social Science	Sophia Arnold	Mountain Ridge Junior High	In-person vs. Online Learning

Biology & Biochemistry Biomedical, Medicine, & Health Sciences Chemistry	Grace Mickelson and Megan Clayton Gabriel Taylor Athena Jones	Reagan Academy Valley View Middle Mountain Ridge Junior High	Flirt with Dirt 2.0 Your facemask isn't lowering the oxygen level in your blood The Perfect Hydration for a Sour Situation
Chemistry	Daniel Turgeon	Mountain Ridge Junior High	How Different Fats/Butter Substitutions affect the Taste, Texture, and Visual
Earth & Environmental Science	Annabelle Given	Mountain Ridge Junior High	The Mountain's On Fire
Earth & Environmental Science	Scarlett Wright	Mountain Ridge Junior High	Can Nanotechnology Aide In Oil Spill Cleanup?
Energy: Chemical & Physical Engineering: Electrical & Computer Science Engineering: Materials & Mechanical	Jared Stout Owen Platt Anya Esplin and Lily Hamblin	Mountain Ridge Junior High Centennial Middle Centennial Middle	Battery-Free Energy Feel Your Letters Home Accessible Water Filter
Physics, Astronomy, & Mathematics Physics, Astronomy, & Mathematics	Cameron Goode Mary Skousen	Timpanogos Middle Mountain Ridge Junior High	Lacrosse Shafts: Does the Material Matter? The effects of light pollution and how we see the stars at night

1st Place

Animal & Plant Sciences	Oliver Kotter	Mountain Ridge Junior High	Houseplant Photosynthesis
Behavioral & Social Science	Caitlyn Herbert	Karl G. Maeser Prep Academy	Gender Bias in Virtual Science Fairs
Biology & Biochemistry Biomedical, Medicine, & Health Sciences Chemistry	Ashlyn Elder Brynn Barlow Brylie Gunnell	Centennial Middle Challenger School American Preparatory Academy - Salem	Do you like brown apples? Cinnamon Much Ado About Vitamins; To "C" or Not to "C"
Earth & Environmental Science	Brian Stone	Centennial Middle	How to Detox Soil After Exposure to Fire Retadant Phos-Chek
Energy: Chemical & Physical Engineering: Electrical & Computer Science Engineering: Materials & Mechanical	Elise Packer Joshua Killpack Isaac Fausett	Early Light Academy Centennial Middle American Preparatory Academy - Salem	Watts of Potential How Safe are the Sensors Used in Autonomous Cars Knock Your Socks Off
Physics, Astronomy, & Mathematics	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 2 More Power

Category Awards - SENIOR DIVISION

3rd Place

Animal & Plant Sciences	Joel Mena	Pleasant Grove High School	Water Chemistry and its Effect on Nitrifying Bacteria Reproduction
Behavioral & Social Science	Natalie Thurgood	Early Light Academy	Tempted to Cheat

Biomedical, Medicine, & Health Sciences	Elizabeth Nichols	Pleasant Grove High School	Effectiveness of Different Types of Masks in Preventing the Spread of
Engineering	Mercy Smith	Timpview High	Developing a Cheap, Safe, and Effective Filter to Prevent Freshwater

2nd Place

Animal & Plant Sciences	Kyri Forman	Timpanogos High School	Connections between Wing Color and Color Vision among Monarch Butterflies and the Rare White Morph, <i>Danaus plexippus nivosus</i>
Biology & Biochemistry	Victoria Radley	Pleasant Grove High School	The Effects of 2H2O2 on Seed and Cutting Development
Biomedical, Medicine, & Health Sciences	Brayden Cordero and Jack Vaughn	Early Light Academy	A Matter of masks
Earth & Environmental Science	Aspen Delis	Summit High School	The Cost of Clean - An Analysis of the Toxicity of QACs, NaClO, and H2O2 Used to Combat SARS-CoV-2
Engineering	Sky Teeples	Provo High	Hands Free Music Stand

1st Place

Animal & Plant Sciences	Jesse Shepherd	Spanish Fork High	Comparison of Same-hen Yolk and Serum Antibody Levels Using the ELISA Test Following Vaccination With Typical Vaccines Used in Commercial Laying Hens
Biology & Biochemistry	Tyler Jackson	Pleasant Grove High School	Utilizing Computational Algorithms in Comparing SARS-CoV-2 Genetics and Proteins in Italy and Mexico
Biomedical, Medicine, & Health Sciences	Summer Moulder	Pleasant Grove High School	Testing the use of phage Andhra to treat skin infections caused by the bacteria <i>S. epidermidis</i> , and identifying strains with the <i>crispr-cas9</i> enzyme.
Energy: Chemical & Physical	Abigail Burton	Pleasant Grove High School	Determining The Length Of Sympathetic Vibrations On Un-dampened Piano Strings
Earth & Environmental Science	Harper Jones	Karl G. Maeser Prep Academy	Clearing the Air: Empirical Comparison of Metal/Air Battery Carbon Footprint
Engineering	Adam Guthrie	Timpview High	Beneficiation of Clayey Soils with Cement Stabilization

Grand Awards

Broadcom MASTERS Competition Nominees

Oliver Kotter	Mountain Ridge Junior High	Houseplant Photosynthesis
Caitlyn Herbert	Karl G. Maeser Prep Academy	Gender Bias in Virtual Science Fairs
Ashlyn Elder	Centennial Middle	Do you like brown apples?
Brynn Barlow	Challenger School	Cinnamon
Brylie Gunnell	American Preparatory Academy - Salem	Much Ado About Vitamins; To "C" or Not to "C"
Brian Stone	Centennial Middle	How to Detox Soil After Exposure to Fire Retadant Phos-Chek
Elise Packer	Early Light Academy	Watts of Potential
Joshua Killpack	Centennial Middle	How Safe are the Sensors Used in Autonomous Cars
Isaac Fausett	American Preparatory Academy - Salem	Knock Your Socks Off
Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 2 More Power

	Gabriel Taylor	Valley View Middle	Your facemask isn't lowering the oxygen level in your blood
	Athena Jones	Mountain Ridge Junior High	The Perfect Hydration for a Sour Situation
	Annabelle Given	Mountain Ridge Junior High	The Mountain's On Fire
	Jared Stout	Mountain Ridge Junior High	Battery-Free Energy
	Owen Platt	Centennial Middle	Feel Your Letters
	Anya Esplin and Lily Hamblin	Centennial Middle	Home Accessible Water Filter
	Cameron Goode	Timpanogos Middle	Lacrosse Shafts: Does the Material Matter?
Dean's Awards - McKay School of Education	Shaylee Anderson	Pleasant Grove High School	Comparing the Growth of Genetically Modified and Non-GMO Seeds into Corn and Soybean Plants
Dean's Awards - College of Life Sciences	Joel Mena	Pleasant Grove High School	Water Chemistry and its Effect on Nitrifying Bacteria Reproduction
Dean's Awards - Ira A Fulton College of Engineering	Talmadge Carr	Pleasant Grove High School	Determining the Effect Winglets Have On Airplane Wings Compared to Conventional Wingtips.
Dean's Awards - College of Physical & Mathematical Sciences	Abigail Burton	Pleasant Grove High School	Determining The Length Of Sympathetic Vibrations On Un-dampened Piano Strings
Brigham Young University Scholarship	Devyn Giles	Karl G. Maeser Prep Academy	Quantifying Electromagnetic Radiation Levels: The Effects of Proximity on EMF Levels in Residential Homes
Brigham Young University Scholarship	Skye Seamons	Pleasant Grove High School	Effectiveness of Chemical Food Preservatives at Inhibiting the Growth of Microorganisms (B. cereus, M. luteus, P. chrysogenum, P. fluorescens, R. stolonifer, S. aureus)
Junior Division Grand Champion	Caitlyn Herbert	Karl G. Maeser Prep Academy	Gender Bias in Virtual Science Fairs
Junior Division Grand Champion	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 2 More Power
Junior Division Grand Champion	Isaac Fausett	American Preparatory Academy - Salem	Knock Your Socks Off
Junior Division Grand Champion	Brylie Gunnell	American Preparatory Academy - Salem	Much Ado About Vitamins; To "C" or Not to "C"
Junior Division Grand Champion	Joshua Killpack	Centennial Middle	How Safe are the Sensors Used in Autonomous Cars
Junior Division Grand Champion	Brian Stone	Centennial Middle	How to Detox Soil After Exposure to Fire Retadant Phos-Chek
Intel ISEF Finalists	Jesse Shepherd	Spanish Fork High	Comparison of Same-hen Yolk and Serum Antibody Levels Using the ELISA Test Following Vaccination With Typical Vaccines Used in Commercial Laying Hens
Intel ISEF Finalists	Adam Guthrie	Timpview High	Beneficiation of Clayey Soils with Cement Stabilization
Intel ISEF Finalists	Kyri Forman	Timpanogos High School	Connections between Wing Color and Color Vision among Monarch Butterflies and the Rare White Morph, Danaus plexippus nivosus
Intel ISEF Finalists	Summer Moulder	Pleasant Grove High School	Testing the use of phage Andhra to treat skin infections caused by the bacteria S. epidermidis, and identifying strains with the crispr-cas9 enzyme.