

## CUSF 2022 Secondary Day Awards List

Award Name	Name(s)	School(s)	Project Title	
<b>Special Awards</b>				
American Meteorological Society Award	Jacob McArthur	Pleasant Grove High School	Determining The Effects Differing Water Flow Has on Green monopora Birds nest and Hollywood Stunner Chalice	Alpine District
American Meteorological Society Award	Alexis Rose	American Fork High School	The Effect of Electric Stimulation on Coral Growth	Alpine District
American Psychological Association Award	Benson Goo, Peyton Shields, and Ayden	Canyon View Junior	Human Memory	Alpine District
ASM Materials Education Foundation	Rachel Clement	Pleasant Grove High School	The Reaction Time in Seconds for a Female Madagascar Hissing Cockroach to Spin 360° to the Left After Exposed to Environments of 40°, 55°, 70°, 85°, and	Alpine District
ASM Materials Education Foundation	Paiton Baker	Mapleton Jr. High	Engineering A Solar-Powered Computer Using E-waste	Nebo District
Association for Women Geoscientists Award	Alexis Rose	American Fork High School	The Effect of Electric Stimulation on Coral Growth	Alpine District
Green River Fossil Award	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School
Great Basin - Air & Waste Management	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School
Mu Alpha Theta Award	Summer Moulder	Pleasant Grove High School	The effects of NaCl concentration on lysis and absorption rates of a new bacteriophage treatment of antibiotic resistant and CRISPR-CAS containing	Alpine District
Mu Alpha Theta Award	Jess Klemetson	Pleasant Grove High School	Are the doterra Mom's right the effects of antifungal medications on yeast growth	Alpine District
National Oceanic and Atmospheric Administration Award	Alexis Rose	American Fork High School	The Effect of Electric Stimulation on Coral Growth	Alpine District
National Oceanic and Atmospheric Administration Award	Sky Teeple	Provo High	Saving Water Around The House	Provo District
Office of Naval Research	Amelia LeBaron	American Fork High School	Hyoxia's Effect on the Nervous System	Alpine District
Office of Naval Research	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School
Originality	Ryder Overton	Challenger School	$Q=mc\Delta T$	Private School
Originality	Amelia LeBaron	American Fork High School	Hyoxia's Effect on the Nervous System	Alpine District
Presentation	Carter Flint	Timberline Middle	The Unseen Particles Around Us	Alpine District
Presentation	Miranda Ferrufino	Riverton High	Feral Cats: A Health Analysis	Jordan District
Research Design	Abigail Thurston	Freedom Academy	Wild Water	Charter School
Research Design	Caleb Scott	Pleasant Grove High School	The effects of stimulants (nicotine and caffeine) on the regeneration of stem cells in brown planarians ( <i>Dugesia tigrina</i> )	Alpine District
Ricoh Sustainable Development Award	David Richards and Nanieve Bryan	Pleasant Grove High School	Determining the Positive effect of domesticated animals on the symbiotic relationship of <i>S.rhizobium</i> and Alfalfa ( <i>Medicago sativa</i> )	Alpine District
Scientific Journal	Afton Barron	Kelsey Peak Virtual Middle	Future STEMinist A Gameplan for Getting Girls in STEM	Jordan District
Scientific Journal	Anderson Washburn	Canyon View Junior	Trailer Safety: How should trailers be loaded to reduce sway?	Alpine District
Society for In Vitro Biology	Audrey Domyan	Pleasant Grove High School	Genetic Barcoding Succulents	Alpine District
The Lemelson Foundation	Nathan Fellars	Centennial Middle	Bully Block: The Easy to Use Software to Reduce Bullying	Provo District
USAID	Paiton Baker	Mapleton Jr. High	Engineering A Solar-Powered Computer Using E-waste	Nebo District

USAID	Sarah Lee	Timpview High	Effects of STAT3 on Pathological Retinal Angiogenesis	Provo District
U.S. Metric Association	Kaycee Goff	Pleasant Grove High School	Will different over the counter acne medications effect the growth of E-coli	Alpine District
U.S. Metric Association	Summer Moulder	Pleasant Grove High School	The effects of NaCl concentration on lysis and absorption rates of a new bacteriophage treatment of antibiotic resistant and CRISPR-CAS containing	Alpine District
U.S. Stockholm Jr. Water Prize	Jacob McArthur	Pleasant Grove High School	Determining The Effects Differing Water Flow Has on Green monopora Birds nest and Hollywood Stunner Chalice	Alpine District
U.S. Stockholm Jr. Water Prize	Alexis Rose	American Fork High School	The Effect of Electric Stimulation on Coral Growth	Alpine District
US Air Force	Nathan Hillhouse	Pleasant Grove High School	Aerodynamics and Lift of Fixed Wing Aircraft	Alpine District
US Air Force	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School

## Category Awards - JUNIOR DIVISION

### 3rd Place

Animal & Plant Sciences	Sydney Averett	Timpanogos Middle	Caffeinated plants	Wasatch District
Animal & Plant Sciences	Van Haney	Mountain Ridge Junior	How Does acidity Affect The Germination Of Seeds	Alpine District
Behavioral & Social Science	Preston Chandler	Salem Junior High	Meditation vs. Video Games	Nebo District
Behavioral & Social Science	Mariah Swank	Mountain Ridge Junior	Melodic Memory: How Does Music Affect Memorization?	Alpine District
Behavioral & Social Science	Ava Parish	Mountain Ridge Junior	Are Pictures or Words Easier to Remeber and What Techniques Help Morning or Afternoon? Is It Affecting Your Academic Performance?	Alpine District
Behavioral & Social Science	Joshua Kim	Early Light Academy	Yor Academic Performance?	Charter School
Behavioral & Social Science	Caitlyn Herbert	Maeser Prep Academy	Virtually Divergent	Charter School
Biomedical, Medicine, & Health	Matthew Cordner	Centennial Middle	Glucose Induced Alterations in Blood Clotting	Provo District
Biomedical, Medicine, & Health	Isabella Parker	Summit Jr High - Draper	Does the SPF Rating of Sunscreen Affect its Efficacy?	Charter School
Chemistry	Olivia Magleby	Reagan Academy	Oxidation Experiment	Charter School
Chemistry	Rhea Sobti	Kelsey Peak Virtual Middle	Popping Boba	Jordan District
Chemistry	Charlotte Bunker	Mountain Ridge Junior	What Different Types of Fabrics Burn the Fastest?	Alpine District
Chemistry	Karli Kevern	North Star Academy	Bubble Solutions	Charter School
Earth & Environmental	Emmett Hansen	Centennial Middle	How low can you Grow?	Provo District
Earth & Environmental	Eli Davis	Mountain Ridge Junior	From Trash to Gas	Alpine District
Energy: Chemical & Physical	Abrar Uddin	Maeser Prep Academy	Crispening Colors	Charter School
Engineering: Electrical &	Nathan Fellars	Centennial Middle	Bully Block: The Easy to Use Software to Reduce Bullying	Provo District
Engineering: Materials &	Lily Homer	Centennial Middle	Super Duper Dog Food Scooper	Provo District
Engineering: Materials &	Maia Mourtgos	American Preparatory Academy	The Power of Polymer	Charter School

Physics, Astronomy, & Mathematics	Ethan Anderson	Mountain Ridge Junior	You Shall Not Pass!	Alpine District
Physics, Astronomy, & Mathematics	Connor Embry	John Hancock Charter School	Is it too loud?	Charter School

## 2nd Place

Animal & Plant Sciences	Luke McNiven	John Hancock Charter School	Which Came First? The Chicken? The Egg? The Cup?	Charter School
Animal & Plant Sciences	Noelle McConnell	Freedom Academy	Extending the Life of Cut Flowers	Charter School
Behavioral & Social Science	Spencer Rushforth	Freedom Academy	The Scent of Sight: Does sight affect smell?	Charter School
Behavioral & Social Science	Eliza George	Lincoln Academy	Does Age Affect Pickiness?	Charter School
Behavioral & Social Science	Ruby Lynn	Early Light Academy	The Fast And The Furious	Charter School
Behavioral & Social Science	Bethany Willis and Tiana Trinh	Early Light Academy	Sign Language Learning Styles	Charter School
Biology & Biochemistry Biomedical,	Jaxon Woolf	Early Light Academy	Should I Eat It?	Charter School
Medicine, & Health Biomedical,	Rachel Argyle	Centennial Middle	Drink It To Believe It	Provo District
Medicine, & Health Chemistry	Libby Topham and Maya Bybee	Timberline Middle	Drink Up! Don't be "lyte" on energy	Alpine District
Chemistry	Destyni Thomas and Afton Johnson	Early Light Academy	Battle of the Shampoos	Charter School
Chemistry	Devlyn Rasmussen	American Preparatory Academy	Fluffy flames	Charter School
Chemistry	Caleb Woodbrey	American Preparatory Academy	Material Properties of 3D Printed Objects	Charter School
Earth & Environmental	Nora Roney	Centennial Middle	Is Seagrass Insulation the Secret to Carnegie Hall's Acoustics?	Provo District
Energy: Chemical & Physical	Elise Packer	Early Light Academy	Put Gravity To Work	Charter School
Engineering: Electrical &	Wyatt Vanfleet	Centennial Middle	SOP: Save Our Plants	Provo District
Engineering: Materials &	Nicholas Naseath	Mountain Ridge Junior	Doing Science Just for Kicks	Alpine District
Physics, Astronomy, & Mathematics	Jenna Lindgren	North Star Academy	Ski Wax	Charter School

## 1st Place

Animal & Plant Sciences	Graden Rockwood	Centennial Middle	If you feed a plant sugar water will it grow in the dark?	Provo District
Behavioral & Social Science	Kaitlyn Skarda	Lincoln Academy	Would Voldemort Play the Violin?	Charter School
Biology & Biochemistry	Athena Jones	Mountain Ridge Junior	"Plumpkin" Surprise	Alpine District
Biomedical, Medicine, & Health Chemistry	Cali Bundy	Centennial Middle	Blocking UV Light: Stopping Skin Cancer One Head at a Time	Provo District
Chemistry	Scarlett Wright	Mountain Ridge Junior	How Does the Time Dough is Left to Rise Affect the Height, Weight, and	Alpine District
Earth & Environmental	Ethan Burgin and Brian Stone	Centennial Middle	Detoxification of Brine Shrimp from the Great Salt Lake	Provo District

Energy: Chemical & Physical	Ryder Overton	Challenger School	Q=mcΔT	Private School
Engineering: Civil & Environmental	Nathan Weaver and Alex Guthrie	Centennial Middle	Engineering Mortar Mixtures to Incorporate Waste Plastic	Provo District
Engineering: Electrical & Engineering:	Kaden Smith, Owen Platt, and Davin George	Centennial Middle	Just A Mole	Provo District
Materials & Physics, Astronomy, & Mathematics	Elliot Mitchell	Early Light Academy	What is the Best Fin Configuration For a Rocket?	Charter School
	Darius Cline	Mountain Ridge Junior	What fabric should you add to your emergency supply?	Alpine District

## Category Awards - SENIOR DIVISION

### 3rd Place

Animal & Plant Sciences	Audrey Domyan	Pleasant Grove High School	Genetic Barcoding Succulents	Alpine District
Biomedical, Medicine, & Health Engineering	Kessia Carlson	American Fork High School	Antisense Oligonucleotides as a Treatment to Amyotrophic Lateral	Alpine District
	Nathan Hancock	American Heritage School	Electrical Arc	Private School

### 2nd Place

Animal & Plant Sciences	Alexis Rose	American Fork High School	The Effect of Electric Stimulation on Coral Growth	Alpine District
Biology & Biochemistry	Taylor Tomlinson	Pleasant Grove High School	Determining the effects of common antioxidants on E. coli (Escherichia coli)	Alpine District
Biomedical, Medicine, & Health Engineering	Summer Moulder	Pleasant Grove High School	The effects of NaCl concentration on lysis and absorption rates of a new	Alpine District
	Elsa Wall	Early Light Academy	Through The Looking Glass	Charter School
Physics, Astronomy, & Mathematics	Anderson Washburn	Canyon View Junior	Trailer Safety: How should trailers be loaded to reduce sway?	Alpine District

### 1st Place

Animal & Plant Sciences	Miranda Ferruffino	Riverton High	Feral Cats: A Health Analysis	Jordan District
Behavioral & Social Science	Benson Goo, Peyton Shields, and Ayden	Canyon View Junior	Human Memory	Alpine District
Biology & Biochemistry	Amelia LeBaron	American Fork High School	Hyoxia's Effect on the Nervous System	Alpine District
Biomedical, Medicine, & Health Chemistry	Sarah Lee	Timpview High	Effects of STAT3 on Pathological Retinal Angiogenesis	Provo District
	Annalia Siebert	Pleasant Grove High School	Yeast Babies!	Alpine District
Engineering	Sky Teeples	Provo High	Saving Water Around The House	Provo District
Physics, Astronomy, & Mathematics	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School

## Grand Awards

### Broadcom MASTERS Competition Nominees

	Graden Rockwood	Centennial Middle	If you feed a plant sugar water will it grow in the dark?	Provo District
	Kaitlyn Skarda	Lincoln Academy	Would Voldemort Play the Violin?	Charter School
	Athena Jones	Mountain Ridge Junior	"Plumpkin" Surprise	Alpine District

	Cali Bundy	Centennial Middle	Blocking UV Light: Stopping Skin Cancer One Head at a Time	Provo District
	Scarlett Wright	Mountain Ridge Junior	How Does the Time Dough is Left to Rise Affect the Height, Weight, and Detoxification of Brine Shrimp from the Great Salt Lake	Alpine District
	Ethan Burgin and Brian Stone	Centennial Middle	Q=mcΔT	Private School
	Ryder Overton	Challenger School		
	Nathan Weaver and Alex Guthrie	Centennial Middle	Engineering Mortar Mixtures to Incorporate Waste Plastic	Provo District
	Kaden Smith, Owen Platt, and Davin George	Centennial Middle	Just A Mole	Provo District
	Elliot Mitchell	Early Light Academy	What is the Best Fin Configuration For a Rocket?	Charter School
	Darius Cline	Mountain Ridge Junior	What fabric should you add to your emergency supply?	Alpine District
	Luke McNiven	John Hancock Charter School	Which Came First? The Chicken? The Egg? The Cup?	Charter School
	Wyatt Vanfleet	Centennial Middle	SOP: Save Our Plants	Provo District
Dean's Awards - McKay School of Education	JamesVan Moorlehem	Pleasant Grove High School		Alpine District
Dean's Awards - Ira A Fulton College of Engineering	Nathan Hillhouse	Pleasant Grove High School		Alpine District
Dean's Awards - College of Physical & Mathematical Sciences	Annalia Siebert	Pleasant Grove High School		Alpine District
Brigham Young University Scholarship	Jacob McArthur	Pleasant Grove High School	Determining The Effects Differing Water Flow Has on Green monopora Birds nest and Hollywood Stunner Chalice	Alpine District
Brigham Young University Scholarship	Taylor Tomlinson	Pleasant Grove High School	Determining the effects of common antioxidants on E. coli (Escherichia coli) growth and resilience	Alpine District
Junior Division Grand Champion	Darius Cline	Mountain Ridge Junior	What fabric should you add to your emergency supply?	Alpine District
Junior Division Grand Champion	Athena Jones	Mountain Ridge Junior	"Plumpkin" Surprise	Alpine District
Junior Division Grand Champion	Ryder Overton	Challenger School	Q=mcΔT	Private School
Junior Division Grand Champion	Ethan Burgin and Brian Stone	Centennial Middle	Detoxification of Brine Shrimp from the Great Salt Lake	Provo District
Junior Division Grand Champion	Elliot Mitchell	Early Light Academy	What is the Best Fin Configuration For a Rocket?	Charter School
Junior Division Grand Champion	Cali Bundy	Centennial Middle	Blocking UV Light: Stopping Skin Cancer One Head at a Time	Provo District
Intel ISEF Finalists	Sarah Lee	Timpview High	Effects of STAT3 on Pathological Retinal Angiogenesis	Provo District
Intel ISEF Finalists	Fianna Smith	Early Light Academy	Electrifying Lake Mud Part 3 More Power	Charter School
Intel ISEF Finalists	Sky Teeples	Provo High	Saving Water Around The House	Provo District
Intel ISEF Finalists	Anderson Washburn	Canyon View Junior	Trailer Safety: How should trailers be loaded to reduce sway?	Alpine District