

CUSF 2019 Secondary Day Awards List

Award Name	Name(s)	School(s)	Project Title
Special Awards			
American Meteorological Society Award	McKaden Anderson	Payson High	Extracting Ethanol From Gasoline
American Meteorological Society Award	Eric Christen and Melanie Gomez	Pleasant Grove High School	The Effects of pH Level on the Antimicrobial Properties of Different Bacteria for the Mucal Cutaneous Layer of <i>Oncorhynchus mykiss</i>
American Meteorological Society Award	Beau Farnworth	Timpanogos High School	PLASTIC FOR DINNER
American Psychological Association Award	Ellie Marlowe	American Fork High School	Targeted Memory Reactivation
American Psychological Association Award	Alexander Roman	West Jordan Middle	The Gender Bias Behind Sport
ASM Materials Education Foundation	Sam Phillips	American Fork High School	Experimentation in the materials and methods of bulletproofing
ASM Materials Education Foundation	Ryan Black	Canyon View Junior High	The Perfect 3D Pattern
Association for Women Geoscientists Award	Jessica Pratt	Maple Mountain High	Heavy Metal Contamination from Mary Ellen Gulch and Pacific Mines in American Fork Canyon
Association for Women Geoscientists Award	Madison Heaton	Mt. Nebo Jr. High	Chill Out
Humanitarian	Sage Chaffin	Early Light Academy	Cleaning Up Earth Piece By Piece
Great Basin Air & Waste Management Association Award	Evelyn Brimhall	Pleasant Grove High School	Are "green" dishsoaps really "green"?
Intel Excellence in Computer Science	William Jespersen	American Fork High School	Listening hands
Lemelson Early Inventors	Calise Campbell, Sarah Farrer, and Ashley Larson	Early Light Academy	Pollution solution
Microscopy	Benjamin Williams	Mountain View High School	The Sun and Germicidal Irradiation Methods
Mu Alpha Theta Award	Sami Davis and Alicia Kuhlmann	Bingham High	A Continued Study Of: A More Realistic Solution To Refugee Housing Using The Isoperimetric Honeycomb Conjecture
NASA Earth System Science Award	Hannah Brokaw	Payson High	Finding Energy In Sagebrush
NASA Earth System Science Award	Maya Lewis	Pleasant Grove High School	Dam Damage
National Oceanic and Atmospheric Administration Award	Duncan Burns	Early Light Academy	Filtration of Microplastics from Salt Water
National Oceanic and Atmospheric Administration Award	Ammon Wallace	Salem Hills High	Doppler Radar Flash Flood Detector
Office of Naval Research	Steven Whitney	Challenger School	Electron Wars

Office of Naval Research	Emmeline Krzycynski	Centennial Middle	The Cost of the Strength
Office of Naval Research	Derek Blackwell	Willowcreek Middle School	Parasitic Elements & VHF Signals
Office of Naval Research	Annie Williams	Timberline Middle School	The Strength of Concrete including recycled materials
Office of Naval Research	William Jespersen	American Fork High School	Listening hands
Office of Naval Research	Skyler Colledge	Lone Peak High School	Applying Optimum Lattice Structures for Topology Optimization
Office of Naval Research	Sam Phillips	American Fork High School	Experimentation in the materials and methods of bulletproofing
Originality	Sky Teeples	Dixon Middle	Magic Music Stand II
Originality	Madison Heaton	Mt. Nebo Jr. High	Chill Out
Presentation	Sarah Whitt and Allison Whitt	Timberline Middle School	Isn't Osmosis Grape?
Presentation	Devyn Giles	Maeser Prep Academy	Dorm Room Danger? Quantifying Electromagnetic Radiation Levels and Faraday Cage Shielding Effectiveness in College Dorm
Research Design	Kandace Warner	Early Light Academy	Who Would You Pass To?: Gender Bias In Team Sports Study
Research Design	Marki Bangerter and Kennadi Hooton	South Jordan Middle	Distracted Generation
Ricoh Sustainable Development Award	Jesse Shepherd	Spanish Fork Jr. High	Get The Scoop On Poop!
Ricoh Sustainable Development Award	Alexis Gladding	Diamond Fork Jr. High	Propelling Forward Together
Scientific Journal	Brooklyn Bourne, Natalie Thurgood, and Rachel Scherbel	Early Light Academy	A Study of Delayed Gratification in First Grade Students
Scientific Journal	Hannah Brokaw	Payson High	Finding Energy In Sagebrush
Society for In-Vitro Biology - 11th grader	Anika Larson, Kinsee Nyland, and Jacob Moulder	Pleasant Grove High School	The Effect of Growing Six Crops on the Presence of Symbiotic Bacteria <i>S. medicae</i> and <i>S. melaloti</i> in Soil
U.S. Air Force	Jonah Walker and Garrett Springer	American Fork High School	Production of an Affordable and Available Electrospinner
U.S. Air Force	Nathan Price	Mountain View High School	Demonstration of a Cathode Ray Tube
U.S. Air Force	William Jespersen	American Fork High School	Listening hands
U.S. Metric Association	Andrew Brady	Dixon Middle	Pendulums

U.S. Metric Association	Kaylynn Loder	Pleasant Grove High School	Growing Super Worms
U.S. Stockholm Jr. Water Prize	Jessica Pratt	Maple Mountain High	Heavy Metal Contamination from Mary Ellen Gulch and Pacific Mines in American Fork Canyon
U.S. Stockholm Jr. Water Prize	Eric Christen and Melanie Gomez	Pleasant Grove High School	The Effects of pH Level on the Antimicrobial Properties of Different Bacteria for the Mucal Cutaneous Layer of <i>Oncorhynchus mykiss</i>
U.S. Stockholm Jr. Water Prize	Ammon Wallace	Salem Hills High	Doppler Radar Flash Flood Detector
U.S. Stockholm Jr. Water Prize	Maya Lewis	Pleasant Grove High School	Dam Damage
U.S. Stockholm Jr. Water Prize	Jenna Hampton, Abby Bloxham, and Maddie Mathis	American Fork High School	Water Contaminates
Yale Science & Engineering Association Award	Skyler Colledge	Lone Peak High School	Applying Optimum Lattice Structures for Topology Optimization
Yale Science & Engineering Association Award	Cole Lucas and Aaron Boden	American Fork High School	Overclocking: a Timely Solution
World Food	Jessi Macias	Mapleton Jr. High	Grafting Galore
American Fossil Green River Formation Award	Kunal Kamtekar	Challenger School	The Effect of Mining and Quarrying on the Amount of Hazardous Metals in Soil and Water

Category Awards - JUNIOR DIVISION

Behavioral & Social Science - 3rd Place	Sahaja Rutledge and Madison Bassir	Mt. Nebo Jr. High	Unconscious Racial Bias
Behavioral & Social Science - 3rd Place	Elliott Bird	Early Light Academy	Focus on the Font
Behavioral & Social Science - 3rd Place	Molly Dulgarian	West Jordan Middle	Social Media = Happiness?
Behavioral & Social Science - 3rd Place	Emma Mitchell	West Jordan Middle	Impact of Screens on Children
Behavioral & Social Science - 3rd Place	Derek Mills	Mountain Ridge Junior High	Subliminal Cinema
Biology & Biochemistry - 3rd Place	Liza Petersen	Mapleton Jr. High	Gram-negative Bacteria on Organic and Non-organic Vegetables
Biomedical, Medicine, & Health Sciences - 3rd Place	Marie Ahlander	Mountain Ridge Junior High	Wind/Brass Instrument Players vs. Soccer Players Based on Lung Capacity
Biomedical, Medicine, & Health Sciences - 3rd Place	Zandrielle Killpack	Mountain Ridge Junior High	Can Older People Hear as Well as Younger People?
Chemistry - 3rd Place	Caitlyn Macedone	Centennial Middle	PLA In A Dishwasher?
Chemistry - 3rd Place	Kendall Carter	Mountain Ridge Junior High	Fire Resistance of Pajama Fabric
Chemistry - 3rd Place	Kennedy Dimond	Mountain Ridge Junior High	Apple Oxidation

Earth & Environmental Science - 3rd Place	Brighton Cox	Dixon Middle	Measuring Electrical Conductivity and Total Dissolved Solids at Two Schools
Earth & Environmental Science - 3rd Place	Risha Nadar	Lakeview Academy	Global Warming: Is it a Myth?
Engineering: Civil & Environmental - 3rd Place	Calise Campbell, Sarah Farrer, and Ashley Larson	Early Light Academy	Pollution solution
Engineering: Electrical & Computer Science - 3rd Place	Jonathan Laxman	Early Light Academy	Programmable LED Pixel Display
Engineering: Materials & Mechanical - 3rd Place	Abigayle Harker	Early Light Academy	Polytetrafluoroethylene
Engineering: Materials & Mechanical - 3rd Place	Tyler Blevins and Preston Bingham	Dixon Middle	Maglevs & Magnets
Physics, Astronomy, & Mathematics - 3rd Place	Jack Vaughn	Early Light Academy	Fan of Speed
Physics, Astronomy, & Mathematics - 3rd Place	Max Warren	Mapleton Jr. High	A Softer Path a Day Keeps the Orthopedic Surgeon Away
Physics, Astronomy, & Mathematics - 3rd Place	Andrew Brady	Dixon Middle	Pendulums
Animal & Plant Sciences - 2nd Place	Jessi Macias	Mapleton Jr. High	Grafting Galore
Behavioral & Social Science - 2nd Place	Scout Jones	Maeser Prep Academy	Storing With Snoring: The Effect of Sleep on Memorization
Behavioral & Social Science - 2nd Place	Kylee Rife	Dixon Middle	Lost in Circles
Behavioral & Social Science - 2nd Place	David Bartholomew	Mt. Nebo Jr. High	Paper Vs. Computer
Biology & Biochemistry - 2nd Place	Sarah Whitt and Allison Whitt	Timberline Middle School	Isn't Osmosis Grape?
Biomedical, Medicine, & Health Sciences - 2nd Place	Madisyn Lott and Sophie Beehler	Spanish Fork Jr. High	Hand Washing to the Test
Biomedical, Medicine, & Health Sciences - 2nd Place	Ethan Parish	Mountain Ridge Junior High	How Much Time Do You Have to Pick Up Your Food?
Chemistry - 2nd Place	Landon Bundy	Centennial Middle	Safe Sunscreen: Zinc takes on Endocrine Disruptors
Chemistry - 2nd Place	Eva Rushforth	Freedom Academy	"I Scream, You Scream, We all Scream for . . . salt?"
Earth & Environmental Science - 2nd Place	Kunal Kamtekar	Challenger School	The Effect of Mining and Quarrying on the Amount of Hazardous Metals in Soil and Water
Earth & Environmental Science - 2nd Place	Tanner Fraser and Josh Fraser	Spanish Fork Jr. High	Smoke on the Water
Energy: Chemical & Physical - 2nd Place	Vikram Athithan	Freedom Academy	Pill Bottle Capacitor

Engineering: Civil & Environmental - 2nd Place	Sage Chaffin	Early Light Academy	Cleaning Up Earth Piece By Piece
Engineering: Electrical & Computer Science - 2nd Place	Ada Marre	Centennial Middle	Multi-Screen Mobile Media Player
Engineering: Materials & Mechanical - 2nd Place	Sky Teeples	Dixon Middle	Magic Music Stand II
Physics, Astronomy, & Mathematics - 2nd Place	Keilah van Hees	Summit Jr. High - Independence	Centrifugal Force and Coefficient of Friction
Physics, Astronomy, & Mathematics - 2nd Place	Anna Pettit	Mountain Ridge Junior High	Ballistic Battle
Physics, Astronomy, & Mathematics - 2nd Place	Stephen Thompson	Freedom Academy	How to Make a Piano Sing
Animal & Plant Sciences - 1st Place	Sarah Stone	Centennial Middle	The Effect of Light on Plant Transpiration
Behavioral & Social Science - 1st Place	Ara Messerian	Summit Elementary Independence	Voting By Example
Biology & Biochemistry - 1st Place	Danielle Shafer	Summit Jr. High - Independence	Keep the Coral Floral
Biomedical, Medicine, & Health Sciences - 1st Place	Collin Ralphs	North Star Academy	How much force does it take for a baseball to break a bone?
Chemistry - 1st Place	Aspen Delis	Summit Jr. High - Independence	What's in Your Water? An Analysis of the Concentrations of Impurities in Tap and Bottled Water.
Earth & Environmental Science - 1st Place	Duncan Burns	Early Light Academy	Filtration of Microplastics from Salt Water
Energy: Chemical & Physical - 1st Place	Gavin Walburger	Early Light Academy	The Force Awakens
Engineering: Civil & Environmental - 1st Place	Annie Williams	Timberline Middle School	The Strength of Concrete including recycled materials
Engineering: Electrical & Computer Science - 1st Place	Derek Blackwell	Willowcreek Middle School	Parasitic Elements & VHF Signals
Engineering: Materials & Mechanical - 1st Place	Emmeline Kryscynski	Centennial Middle	The Cost of the Strength
Physics, Astronomy, & Mathematics - 1st Place	Steven Whitney	Challenger School	Electron Wars

Category Awards - SENIOR DIVISION

Animal & Plant Sciences - 3rd Place	Sarah Farnsworth	Timpanogos High School	Comparing Sugar Types & Vase Life of Alstroemeria
Animal & Plant Sciences - 3rd Place	Kate Cragun	Pleasant Grove High School	How Pressurized Water Affects the Germination of Seeds
Behavioral & Social Science - 3rd Place	Annalynn Lee	West Jordan Middle	Wondering About Wheelchairs
Behavioral & Social Science - 3rd Place	Taylor Ward	West Jordan Middle	Political Tribalism

Behavioral & Social Science - 3rd Place	Diana Ellingford and Gwendolyn Walker	Canyon View Junior High	Empathy
Behavioral & Social Science - 3rd Place	Ashlyn Nipko	West Jordan Middle	Does sleep affect reading comprehension?
Behavioral & Social Science - 3rd Place	Jaden Butterfield	West Jordan Middle	The Multitasking Myth
Biology & Biochemistry - 3rd Place	Benjamin Williams	Mountain View High School	The Sun and Germicidal Irradiation Methods
Biomedical, Medicine, & Health Sciences - 3rd Place	Judith Kho	Pleasant Grove High School	Acne's Worst Nightmare
Biomedical, Medicine, & Health Sciences - 3rd Place	Devorah Stucki	American Fork High School	Analyzing Seizure Resistance in Fruit Flies
Earth & Environmental Science - 3rd Place	Tanner Christensen	Providence Hall	Breathe Easy
Earth & Environmental Science - 3rd Place	Beau Farnworth	Timpanogos High School	PLASTIC FOR DINNER
Energy: Chemical & Physical - 3rd Place	Jaydon Bratsman, Noah Birkeland, and Truman Gunther	American Fork High School	Electromagnetic Field in Mediums
Engineering: Electrical & Computer Science - 3rd Place	William Unsworth	Early Light Academy	Mapping Crime
Engineering: Materials & Mechanical - 3rd Place	Stephen Cannon, Joshua Rawlings, and William Larsen	American Fork High School	Effect of Cotton to Polyester Ratio on the Breathability of Fabric
Engineering: Materials & Mechanical - 3rd Place	Sam Phillips	American Fork High School	Experimentation in the materials and methods of bulletproofing
Animal & Plant Sciences - 2nd Place	Hannah Brokaw	Payson High	Finding Energy In Sagebrush
Animal & Plant Sciences - 2nd Place	Ashley Olsen	Spanish Fork Jr. High	The effect of various commercial feeds on dressing percent and rate of gain in turkeys
Behavioral & Social Science - 2nd Place	Camille Davies and Hayley Herker	Springville High	Cellphones VS Brain
Behavioral & Social Science - 2nd Place	Emily Daems	Canyon View Junior High	Film Scores
Behavioral & Social Science - 2nd Place	Laney Borg	Early Light Academy	Does Stress Affect How Students Feel About School?
Biology & Biochemistry - 2nd Place	Jacob Wright	American Fork High School	Spectrophotometric Test of the Effect of Temperature on Catalase Activity
Biomedical, Medicine, & Health Sciences - 2nd Place	Natalie Lopez	Mountain View High School	Male VS Female Brain Structure
Chemistry - 2nd Place	McKaden Anderson	Payson High	Extracting Ethanol From Gasoline
Earth & Environmental Science - 2nd Place	Eric Christen and Melanie Gomez	Pleasant Grove High School	The Effects of pH Level on the Antimicrobial Properties of Different Bacteria for the Mucal Cutaneous Layer of <i>Oncorhynchus mykiss</i>

Earth & Environmental Science - 2nd Place	Margaret Davis and Lizzie Jensen	Timpview High	Soil and Succession
Energy: Chemical & Physical - 2nd Place	Ella Madsen	Home School	Producing Electricity From Heat Using Thermoelectrics
Engineering: Electrical & Computer Science - 2nd Place	William Jespersen	American Fork High School	Listening hands
Engineering: Materials & Mechanical - 2nd Place	Skyler Colledge	Lone Peak High School	Applying Optimum Lattice Structures for Topology Optimization
Engineering: Materials & Mechanical - 2nd Place	Mark Payne and Melody Anderson	Springville High	Structures of Insulation
Physics, Astronomy, & Mathematics - 2nd Place	Ella Omdahl	Pleasant Grove High School	Everyday I'm Shuffling
Animal & Plant Sciences - 1st Place	Jesse Shepherd	Spanish Fork Jr. High	Get The Scoop On Poop!
Behavioral & Social Science - 1st Place	Marki Bangerter and Kennadi Hooton	South Jordan Middle	Distracted Generation
Biology & Biochemistry - 1st Place	Payton Erickson	American Fork High School	Investigating Apoptosis in Caenorhabditis elegans
Biomedical, Medicine, & Health Sciences - 1st Place	Kameron Trotter and Connor Bailey	Pleasant Grove High School	natural selection and evolution demonstrated over a short period of time using e. coli
Chemistry - 1st Place	Aaron Steed	American Fork High School	Synthesis of Dichloropropanol: A Catalytic Comparison
Earth & Environmental Science - 1st Place	Jessica Pratt	Maple Mountain High	Heavy Metal Contamination from Mary Ellen Gulch and Pacific Mines in American Fork Canyon
Energy: Chemical & Physical - 1st Place	Alexis Gladding	Diamond Fork Jr. High	Propelling Forward Together
Engineering: Electrical & Computer Science - 1st Place	Ammon Wallace	Salem Hills High	Doppler Radar Flash Flood Detector
Engineering: Materials & Mechanical - 1st Place	Sami Davis and Alicia Kuhlmann	Bingham High	A Continued Study Of: A More Realistic Solution To Refugee Housing Using The Isoperimetric Honeycomb Conjecture
Physics, Astronomy, & Mathematics - 1st Place	Liesel Robinson	Early Light Academy	Effect of Magnetic Fields on Zinc Oxide Nanowires

Grand Awards

Broadcom MASTERS Competition	Sarah Stone	Centennial Middle	The Effect of Light on Plant Transpiration
Broadcom MASTERS Competition	Ara Messerian	Summit Elementary Independence	Voting By Example
Broadcom MASTERS Competition	Danielle Shafer	Summit Jr. High - Independence	Keep the Coral Floral
Broadcom MASTERS Competition	Collin Ralphs	North Star Academy	How much force does it take for a baseball to break a bone?

Broadcom MASTERS Competition	Aspen Delis	Summit Jr. High - Independence	What's in Your Water? An Analysis of the Concentrations of Impurities in Tap and Bottled Water.
Broadcom MASTERS Competition	Duncan Burns	Early Light Academy	Filtration of Microplastics from Salt Water
Broadcom MASTERS Competition	Gavin Walburger	Early Light Academy	The Force Awakens
Broadcom MASTERS Competition	Annie Williams	Timberline Middle School	The Strength of Concrete including recycled materials
Broadcom MASTERS Competition	Derek Blackwell	Willowcreek Middle School	Parasitic Elements & VHF Signals
Broadcom MASTERS Competition	Emmeline Kryscynski	Centennial Middle	The Cost of the Strength
Broadcom MASTERS Competition	Steven Whitney	Challenger School	Electron Wars
Broadcom MASTERS Competition	Sky Teeples	Dixon Middle	Magic Music Stand II
Broadcom MASTERS Competition	Landon Bundy	Centennial Middle	Safe Sunscreen: Zinc takes on Endocrine Disruptors
Broadcom MASTERS Competition	Kunal Kamtekar	Challenger School	The Effect of Mining and Quarrying on the Amount of Hazardous Metals in Soil and Water
Broadcom MASTERS Competition	Madisyn Lott and Sophie Beehler	Spanish Fork Jr. High	Hand Washing to the Test
Broadcom MASTERS Competition	Madisyn Lott and Sophie Beehler	Spanish Fork Jr. High	Hand Washing to the Test
Broadcom MASTERS Competition	Keilah van Hees	Summit Jr. High - Independence	Centrifugal Force and Coefficient of Friction
Dean's Awards - McKay School of Education	Jessica Pratt	Maple Mountain High	Heavy Metal Contamination from Mary Ellen Gulch and Pacific Mines in American Fork Canyon
Dean's Awards - College of Life Sciences	Hannah Himes and Alessandra Waugh	Pleasant Grove High School	The effects of growth hormone enhancers royal jelly, gibberellic acid, and human growth hormone on tobacco hornworms and painted lady
Dean's Awards - Ira A Fulton College of Engineering	Sami Davis and Alicia Kuhlmann	Bingham High	A Continued Study Of: A More Realistic Solution To Refugee Housing Using The Isoperimetric Honeycomb Conjecture
Dean's Awards - College of Physical & Mathematical Sciences	Nicholas Worms	American Fork High School	A proof for the rationality of $\ln(\pi)$
Brigham Young University Scholarship	Camille Davies	Springville High	Cellphones VS Brain
Brigham Young University Scholarship	Sami Davis	Bingham High	A Continued Study Of: A More Realistic Solution To Refugee Housing Using The Isoperimetric Honeycomb Conjecture
Brigham Young University - Mathematics Scholarship	Nicholas Worms	American Fork High School	A proof for the rationality of $\ln(\pi)$
Junior Division Grand Champion	Emmeline Kryscynski	Centennial Middle	The Cost of the Strength

Junior Division Grand Champion	Sarah Stone	Centennial Middle	The Effect of Light on Plant Transpiration
Junior Division Grand Champion	Steven Whitney	Challenger School	Electron Wars
Junior Division Grand Champion	Aspen Delis	Summit Jr. High - Independence	What's in Your Water? An Analysis of the Concentrations of Impurities in Tap and Bottled Water.
Junior Division Grand Champion	Danielle Shafer	Summit Jr. High - Independence	Keep the Coral Floral
Junior Division Grand Champion	Annie Williams	Timberline Middle School	The Strength of Concrete including recycled materials
Intel ISEF Finalists	Jesse Shepherd	Spanish Fork Jr. High	Get The Scoop On Poop!
Intel ISEF Finalists	Liesel Robinson	Early Light Academy	Effect of Magnetic Fields on Zinc Oxide Nanowires
Intel ISEF Finalists	Ammon Wallace	Salem Hills High	Doppler Radar Flash Flood Detector
Intel ISEF Finalists	Sami Davis and Alicia Kuhlmann	Bingham High	A Continued Study Of: A More Realistic Solution To Refugee Housing Using The Isoperimetric Honevcomb Coniecture